Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	201	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

URS CORPORATION
1380 Lead Hill Blvd.
Suite 100
Roseville, CA 95661

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

STAGE CONSTRUCTION QUANTITIES

STAGE	SHEET No.	STATION FROM	STATION TO	DETAIL No. OR MARKING	TYPE (P) PAINT (T) THERMO-PLASTIC	(N) LENGTH	REMOVE PAVEMENT MARKER	REMOVE PAINTED TRAFFIC STRIPE 4" YELLOW	REMOVE PAINTED TRAFFIC STRIPE 4" WHITE	REMOVE PAINTED TRAFFIC STRIPE 8" WHITE	REMOVE THERMOPLASTIC TRAFFIC STRIPE 4" YELLOW	REMOVE THERMOPLASTIC TRAFFIC STRIPE 4" WHITE	REMOVE THERMOPLASTIC TRAFFIC STRIPE 8" WHITE	REMOVE PAINTED PAVEMENT MARKING	REMOVE THERMOPLASTIC PAVEMENT MARKING
						LF	EA	LF						SQFT	SQFT
4	SC-41	16.00′ Lt "ORH" 31+14.98	1.31′ Lt "ORH" 33+06.68	28	P	192		767			0				
	SC-41	17.05′ Lt "ORH" 31+14.98	16.00′ Lt "ORH" 31+57.51		P	43		170			0				
	SC-41	15.19′ Lt "ORH" 31+79.93	10.06′ Lt "ORH" 32+57.15		P	77		309			0				
	SC-37	35.03′ Lt "ORH" 20+51.12	18.00′ Lt "ORH" 23+26.91	38A	P	276				552			0		
	SC-37	30.00′ Rt "ORH" 22+25.57	18.00′ Rt "ORH" 22+77.71	40	P	52			8			0			
	SC-38	18.00′ Lt "ORH" 23+26.91	30.00′ Lt "ORH" 24+00.73		P	74			11			0			
	SC-37	13.10′ Rt "ORH" 20+70.85		Type I (24′) Arrow	P										31
	SC-37	54.81′ Lt "OSF" 60+85.37		Type III Arrow	P										42
	SC-37	53.87′ Lt "OSF" 62+48.41		Type III Arrow	P										42
	SC-38	12.21′ Rt "ORH" 22+76.11		Type I (24′) Arrow	P										31
	SC-38	22.16′ Rt "ORH" 22+77.72		Type III Arrow	P										42
	SC-38	6.62′ Lt "ORH" 23+03.67		Type I (24′) Arrow	P										31
	SC-38	23.52′ Lt "ORH" 23+01.61		Type III Arrow	P										42
	SC-38	38.27′ Rt "ONF" 38+99.84		Type III Arrow	P										42
	SC-38	46.04′ Rt "ONF" 43+09.12		Type III Arrow	P										42
	SC-38	32.34′ Rt "ORH" 28+63.57		Limit Line	P	14									14
	SC-39	13.42′ Rt "ML" 416+36.57		Diamond	P										11
	SC-40	33.58′ Rt "ORH" 10+59.76		Type 1 (10′) Arrow	P										14
	SC-40	28.29′ Rt "ORH" 12+50.00		"SB"	P										14
	SC-40	28.42′ Rt "ORH" 13+00.00		"101"	P										15
	SC-41	18.92′ Rt "ORH" 30+87.48		Type V Arrow	P										33
	SC-41	22.97′ Lt "ORH" 31+29.74		Type I (24′) Arrow	P										31
	SC-41	25′ Lt "ORH" 32+92.00		"ONLY"	P										22
	SC-41	25′ Lt "ORH" 33+42.00		"101"	P										15
	SC-41	24′ Lt "ORH" 33+92.00		"NB"	P										14
5	SC-44	11.00′ Lt "ML" 387+63.25	7.00′ Lt "ML" 425+78.00	27B	P	3815			3815			0			
	SC-44	23.00′ Lt "ML" 387+63.25	19.00′ Lt "ML" 425+78.00	12	P	3815	81								
	SC-44	35.00′ Lt "ML" 387+63.25	31.00′ Lt "ML" 425+78.00		P	3815	81								
	SC-44	11.00′ Rt "ML" 388+36.10	11.00′ Rt "ML" 420+20.00	25	P	3184	68								
	SC-44	23.00′ Rt "ML" 388+36.10	23.00′ Rt "ML" 420+20.00	12	P	3184	68								
	SC-44	35.00′ Rt "ML" 388+36.10	35.00′ Rt "ML" 420+20.00		P	3184	68								
	SC-44,46	47.30′ Rt "ML" 392+80.10	83.31′ Rt "ONF" 43+55.80	27B	P	1584									
		0.00′ "ONF" 30+00.00	42.00′ Rt "ONF" 43+20.93	25	P	1321	29								
	SC-44	16.58′ Rt "ML" 391+40.32		Diamond	P										11
	SC-48	CL "ORH" 10+72.00		Type IV (L) Arrow	P										15
	SC-48	7.42′ Lt "ORH" 10+79.60	56.47′ Rt "ORH" 10+80.61	Limit Line	P	10									10
	SC-48	46.66′ Rt "ORH" 11+63.66	57.70′ Lt "ORH" 11+86.29	Crosswalk (12" White)	P	110									110
	SC-48	46.67′ Rt "ORH" 11+76.78	52.95′ Lt 11+96.15	Crosswalk (12" White)	P	99									99
	SC-48	1.27′ Lt "ORH" 11+98.62		Type IV (L) Arrow	P										15
	SC-48	13.56′ Lt "ORH" 11+98.69		Type I (10′) Arrow	P										14
	SC-48	25.25′ Lt "ORH" 12+00.38		Type I (10′) Arrow	P										14
	SC-48	39.92′ Lt "ORH" 12+10.98		Type IV (R) Arrow	P										15
	SC-48	47.13′ Lt "SP" 10+48.65	48.77′ Rt "SP" 10+64.73	Crosswalk (12" White)	P	98									98
	SC-48	38.19′ Lt "SP" 10+60.02	42.17′ Rt "SP" 10+75+27	Crosswalk (12" White)	P	83									83
	SC-48	5.59′ Lt "SP" 10+80.52		Type IV (L) Arrow	P										15
	SC-48	15.60′ Lt "SP" 10+79.61		Type I (10′) Arrow	P										14
	SC-48	26.48′ Lt "SP" 10+80.27		Type IV (R) Arrow	P										15
	SC-48	22.03′ Rt "SP" 10+89.10		Type VI (L) Arrow	P										42
	SC-48	23.70′ Rt "SP" 11+67.76		Type VI (L) Arrow	P										42
	SC-49	Rt "ORH" 34+94.65		Limit Line	P	52									52
	SC-49	Rt "ORH" 35+56.61		Limit Line	P	43									43
			SHEET TOTAL (SCQ-6)			25124	395	1246	3834	552	0	0	0	0	1235
			SHEET TOTAL (SCQ-5)			10269	169	4009	3481	2254	0	0	0	0	608
			SHEET TOTAL (SCQ-4)			6581	127	2550	2301	755	0	0	0	0	374
			SHEET TOTAL (SCQ-3)			8314	18	358	6930	908	0	0	0	380	823
			SHEET TOTAL (SCQ-2)			19250	544	16653	5004	981	0	0	0	0	1082
			SHEET TOTAL (SCQ-1)			15894	266	1024	361	0	2452	5370	1342	0	354
			GRAND TOTAL			85432	1519	25840	21911	5450	2452	5370	1342	380	4476
								53201				6712			

STAGE CONSTRUCTION QUANTITIES

SCQ-6

REVISED BY	DATE REVISED
HN	5/24/12
HN	4/19/12

CALCULATED-DESIGNED BY: HUEY NHAM
CHECKED BY: DAVID WILLIAMS
CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 07:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	202	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

STAGE CONSTRUCTION QUANTITIES

STAGE	SHEET No.	STATION FROM	STATION TO	DETAIL No. OR MARKING	TYPE (P) PAINT (T) THERMO-PLASTIC	(N) LENGTH	TEMPORARY PAVEMENT MARKER	TEMPORARY TRAFFIC STRIPE (PAINT) 4" YELLOW	4" WHITE	8" WHITE	TEMPORARY PAVEMENT MARKING (PAINT)
						LF	EA	LF			SQFT
1	SC-2,3	43.90′ Lt "ML" 396+85.03	48.93′ Lt "ML" 398+24.94	8	P	140			140		
	SC-3	46.00′ Lt "ML" 403+39.07	50.45′ Lt "ML" 404+45.00		P	106			106		
	SC-4	52.00′ Rt "ML" 403+38.78	46.00′ Rt "ML" 404+37.85		P	99			99		
	SC-4	49.02′ Rt "ML" 409+97.22	41.08′ Rt "ML" 411+53.45		P	156			156		
	SC-6	34.02′ Rt "ORH" 33+07.05	37.26′ Rt "ORH" 34+93.24	9	P	186	5		186		
	SC-2,3,5	32.10′ Lt "ML" 394+59.99	32.91′ Lt "ML" 414+99.87	12	P	2040	44		2040		
	SC-3	18.86′ Lt "ML" 398+92.44	19.88′ Lt "ML" 406+80.95		P	789	18		789		
	SC-4	19.25′ Rt "ML" 398+92.44	19.14′ Rt "ML" 406+80.95		P	789	18		789		
	SC-4,5	31.25′ Rt "ML" 398+92.44	31.00′ Rt "ML" 420+00.00		P	2108	45		2108		
	SC-3	6.86′ Lt "ML" 398+92.44	7.88′ Lt "ML" 406+80.95	25	P	789	18	789			
	SC-4	7.25′ Rt "ML" 398+92.44	7.14′ Rt "ML" 406+80.95		P	789	18	789			
	SC-4	38.88′ Lt "ONNL" 56+66.95	52.00′ Rt "ML" 403+38.78	25A	P	237	11	237			
	SC-2,3	45.21′ Lt "ML" 394+47.75	59.97′ Lt "ML" 398+24.94	27B	P	377			377		
	SC-2,3	43.50′ Lt "ML" 397+39.07	60.53′ Lt "ML" 404+07.43		P	668			668		
	SC-3	46.00′ Lt "ML" 404+44.97	44.04′ Lt "ML" 406+80.95		P	236			236		
	SC-4	44.05′ Rt "ML" 398+92.44	46.00′ Rt "ML" 403+38.78		P	446			446		
	SC-4,5	61.23′ Rt "ML" 408+97.22	41.00′ Rt "ML" 415+49.97		P	653			653		
	SC-4	23.49′ Lt "ONNL" 56+67.47	41.09′ Rt "ML" 410+39.85		P	919			919		
	SC-4	91.46′ Lt "ONNL" 50+75.31	35.33′ Lt "ONNL" 51+58.37	38A	P	83				83	
1A	SC-8	27.80′ Lt "ORH" 17+57.84	12.15′ Lt "ORH" 21+43.88	21	P	386		386			
	SC-9	12.55′ Lt "ONF" 37+55.93	20.00′ Rt "ONF" 41+60.27	25A	P	404	18	404			
	SC-9	23.83′ Rt "ONF" 39+35.61	26.00′ Rt "ONF" 43+58.64		P	423	19	423			
	SC-9	41.1′ Rt "ONF" 39+71.26	44.16′ Rt "ORH" 28+76.37	27B	P	472			472		
	SC-9	0.00′ "ORH" 24+17.82	18.77′ Lt "ONNL" 56+19.38		P	1002			1002		
	SC-9	20.00′ Rt "ONF" 41+60.27	23.02′ Rt "ONF" 43+61.40	29	P	201	19	402			
	SC-9	26.00′ Rt "ONF" 41+60.39	23.02′ Rt "ONF" 43+61.40		P	201	19	402			
	SC-9	40.00′ Rt "ONF" 41+33.89	40.00′ Rt "ONF" 43+59.46	38A	P	226				226	
	SC-8	2.46′ Lt "ORH" 16+22.70	27.80′ Lt "ORH" 17+57.84	40	P	135			135		
	SC-9	26.00′ Rt "ONF" 43+58.64	13.03′ Lt "ORH" 27+39.10	40	P	130			130		
	SC-8	26.34′ Lt "ORH" 18+04.47	39.06′ Lt "ORH" 18+04.82	Limit Line (12" White)	P	13					13
	SC-9	26.00′ Rt "ONF" 43+14.97	44.16′ Rt "ONF" 43+76.37	Limit Line (12′′ White)	P	48					48
	SC-9	0.00′ "ORH" 27+39.10	13.03 Lt "ORH" 27+39.10	Limit Line (12′′ White)	P	13					13
	SC-8	31.46′ Lt "ORH" 18+14.63		Type I (24′) Arrow	P						31
	SC-9	11.86′ "ONF" 43+19.91		Type I (24′) Arrow	P						31
	SC-9	8.14′ Lt "ORH" 27+05.08		Type II Arrow	P						42
	SC-9	34.97′ Rt "ONF" 41+34.06		Type III (L) Arrow	P						42
	SC-9	44.72′ Rt "ONF" 41+34.03		Type III (R) Arrow	P						42
	SC-9	35.54′ Rt "ONF" 43+29.01		Type III (L) Arrow	P						42
	SC-9	44.85′ Rt "ONF" 43+30.89		Type III (R) Arrow	P						42
	SC-10	34.86′ Rt "ORH" 33+40.23	88.42′ Rt "ORH" 35+10.40	38A	P	191				191	
		SHEET TOTAL				15454	252	3832	11451	500	346

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

REVISED BY: HN 5/24/12 — HN 4/19/12 — DATE REVISED

HUEY NHAM — DAVID WILLIAMS

CALCULATED-DESIGNED BY — CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

STAGE CONSTRUCTION QUANTITIES

SCQ-7

LAST REVISION 04-19-12 | DATE PLOTTED => 17-SEP-2012 | TIME PLOTTED => 13:35

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	203	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

STAGE CONSTRUCTION QUANTITIES

STAGE	SHEET No.	STATION FROM	STATION TO	DETAIL No. OR MARKING	TYPE (P) PAINT (T) THERMO-PLASTIC	LENGTH (N)	TEMPORARY PAVEMENT MARKER	TEMPORARY TRAFFIC STRIPE (PAINT) 4" YELLOW	4" WHITE	8" WHITE	TEMPORARY PAVEMENT MARKING (PAINT)
						LF	EA	LF			SQFT
	SC-17	4.87′ Rt "ORH" 29+97.19	2.72′ Rt "ORH" 31+55.28	9	P	158	5		158		
	SC-13,14	4.32′ Rt "ORH" 18+08.21	24.00′ Rt "ORH" 27+20.00	21	P	912		912			
	SC-14,17	13.48′ Rt "ORH" 28+75.00	13.21′ Lt "ORH" 31+56.19		P	281		281			
	SC-16	1.84′ Rt "ORH" 15+26.18	8.29′ Lt "ORH" 16+46.21		P	120		120			
	SC-13	18.00′ Lt "OSF" 61+83.83	30.03′ Rt "OSNL" 76+83.00	25A	P	719	31	719			
	SC-13,15	27.00′ Lt "OSF 61+83.83	44.80′ Lt "ML" 414+91.41		P	1558	66	1558			
	SC-12	45.21′ Lt "ML" 394+47.75	43.50′ Lt "ML" 397+39.07	27B	P	291			291		
	SC-13,16	29.96′ Rt "ORH" 14+78.45	33.71′ Rt "ORH" 20+85.03		P	607			607		
	SC-13	3.00′ Lt "OSF" 61+12.40	30.03′ Rt "OSNL" 76+83.00		P	633			633		
	SC-13,15,	38.67′ Lt "ORH" 16+13.70	44.80′ Lt "ML" 414+91.41		P	1837			1837		
	SC-13,15	44.71′ Lt "ML" 410+18.71	45.91′ Lt "ML" 416+19.70		P	601			601		
	SC-13,14	2.45′ Lt "ORH" 18+80.87	9.10′ Lt "ORH" 28+64.99		P	984			984		
	SC-14	36.00′ Rt "ORH" 25+00.00	36.00′ Rt "ORH" 27+20.00		P	220			220		
	SC-14,15	41.09′ Rt "ML" 410+37.85	41.00′ Rt "ML" 415+82.22		P	544			544		
	SC-14,17	37.86′ Rt "ORH" 28+75.00	14.70′ Rt "ORH" 31+54.59		P	280			280		
	SC-13	22.54′ Lt "OSF" 60+60.40	18.00′ Lt "OSF" 61+83.83	29	P	123	13	247			
	SC-13	22.54′ Lt "OSF" 60+60.40	27.00′ Lt "OSF" 61+83.83		P	123	13	247			
	SC-13	40.00′ Lt "OSF" 60+64.55	40.00′ Lt "OSF" 62+78.86	38A	P	214				214	
	SC-14	40.00′ Rt "ORH" 25+00.00	40.00′ Rt "ORH" 27+64.10		P	264				264	
	SC-14,17	1.29′ Rt "ORH" 28+75.00	25.20′ Lt "ORH" 31+56.73		P	282				282	
	SC-14,17	25.67′ Rt "ORH" 28+75.00	4.87′ Rt "ORH" 29+97.19		P	122				122	
	SC-16	13.84′ Rt "ORH" 15+26.74	3.67′ Rt "ORH" 16+47.22		P	120				120	
	SC-13	27.00′ Lt "OSF" 60+64.55	4.35′ Rt "ORH" 18+08.66	40	P	95			95		
	SC-13,16	15.26′ Lt "ORH" 16+05.16	4.35′ Rt "ORH" 18+08.66		P	204			204		
	SC-13,16	8.29′ Lt "ORH" 16+46.21	18.00′ Lt "OSF" 60+64.55		P	154			154		
	SC-14	24.00′ Rt "ORH" 27+20.00	21.49′ Rt "ONF" 43+39.39		P	115			115		
	SC-14	36.00′ Rt "ORH" 27+20.00	26.14′ Rt "ORH" 28+65.04		P	145			145		
2	SC-14	20.00′ Rt "ONF" 43+01.29	11.98′ Rt "ONF" 43+29.52		P	31			31		
	SC-14	40.00′ Rt "ORH" 27+64.10	5.00′ Rt "ONF" 43+38.88		P	49			49		
	SC-14	20.00′ Rt "ONF" 43+39.35	15.36′ Rt "ORH" 28+65.02		P	71			71		
	SC-13	9.19′ Rt "ORH" 18+79.98	2.45′ Lt "ORH" 18+80.87	Limit Line (12" White)	P	7					7
	SC-13	27.00′ Lt "OSF" 60+64.55	56.84′ Lt "OSF" 60+64.55	Limit Line (12" White)	P	30					30
	SC-16	15.62′ Rt "ORH" 16+48.23	8.29′ Lt "ORH" 16+46.21	Limit Line (12" White)	P	84					84
	SC-14	52.00′ Rt "ORH" 27+20.00	24.00′ Lt "ORH" 27+20.00	Limit Line (12" White)	P	28					28
	SC-14	65.59′ Rt "ORH" 27+42.82	53.71′ Rt "ONF" 43+31.91	Limit Line (12" White)	P	111					111
	SC-14	54.33′ Rt "ORH" 27+31.78	68.12′ Rt "ORH" 28+56.23	Limit Line (12" White)	P	126					126
	SC-14	54.85′ Rt "ORH" 28+65.08	52.33′ Lt "ORH" 28+64.93	Limit Line (12" White)	P	107					107
	SC-14	45.22′ Rt "ORH" 28+75.00	52.22′ Lt "ORH" 28+75.00	Limit Line (12" White)	P	97					97
	SC-17	80.47 Rt "ORH" 34+78.84	57.47′ Rt "ORH" 35+03.90	Limit Line (12" White)	P	34					34
	SC-17	89.11′ Rt "ORH" 34+84.28	65.53′ Rt "ORH" 35+09.79	Limit Line (12" White)	P	35					35
	SC-17	2.00′ Rt "ORH" 35+05.48	44.00′ Rt "ORH" 35+05.54	Limit Line (12" White)	P	42					42
	SC-17	36.10′ Lt "ORH" 35+10.42	44.00′ Rt "ORH" 35+10.54	Limit Line (12" White)	P	80					80
	SC-17	36.69′ Lt "ORH" 35+20.42	44.00′ Rt "ORH" 35+20.54	Limit Line (12" White)	P	81					81
	SC-17	47.95′ Rt "ORH" 35+26.23	47.48′ Rt "ORH" 36+00.74	Limit Line (12" White)	P	75					75
	SC-17	57.98′ Rt "ORH" 35+21.09	57.49′ Rt "ORH" 35+99.46	Limit Line (12" White)	P	78					78
	SC-17	62.78′ Rt "ORH" 35+53.11	62.56′ Rt "ORH" 35+88.26	Limit Line (12" White)	P	35					35
	SC-13	15.89′ Rt "ORH" 18+89.37		Type I (24′) Arrow	P						31
	SC-13	10.91′ Lt "OSF" 60+74.21		Type I (24′) Arrow	P						31
	SC-14	29.39′ Rt "ORH" 25+00.59		Type I (24′) Arrow	P						31
	SC-14	30.02′ Rt "ORH" 26+86.19		Type I (24′) Arrow	P						31
	SC-14	29.97′ Rt "ORH" 28+84.94		Type I (24′) Arrow	P						31
	SC-14	17.49′ Rt "ORH" 28+85.18		Type I (24′) Arrow	P						31
	SC-14	6.54′ Lt "ORH" 28+85.05		Type I (24′) Arrow	P						31
	SC-14	11.97′ Rt "ONF" 42+51.94		Type I (24′) Arrow	P						31
	SC-16	12.71′ Rt "ORH" 16+09.38		Type I (24′) Arrow	P						31
	SC-17	33.17′ Lt "ORH" 31+18.52		Type I (24′) Arrow	P						31
		SHEET TOTAL				12909	128	4084	7020	1003	1359

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

STAGE CONSTRUCTION QUANTITIES
SCQ-8

REVISED BY	DATE REVISED
HN	5/24/12
HN	4/19/12

HUEY NHAM — DAVID WILLIAMS — CALCULATED-DESIGNED BY — CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	204	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

URS CORPORATION
1380 Lead Hill Blvd.
Suite 100
Roseville, CA 95661

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

STAGE CONSTRUCTION QUANTITIES

STAGE	SHEET No.	STATION FROM	STATION TO	DETAIL No. OR MARKING	TYPE (P) PAINT (T) THERMO-PLASTIC	LENGTH (N)	TEMPORARY PAVEMENT MARKER	TEMPORARY TRAFFIC STRIPE (PAINT) 4" YELLOW	4" WHITE	8" WHITE	TEMPORARY PAVEMENT MARKING (PAINT)
						LF	EA	LF			SQFT
	SC-13	6.02′ R+ "ORH" 18+90.34		Type II Arrow	P						42
	SC-13	34.42′ L+ "OSF" 60+73.47		Type III (L) Arrow	P						42
	SC-13	46.77′ L+ "OSF" 60+73.09		Type III (R) Arrow	P						42
	SC-13	34.28′ L+ "OSF" 62+57.55		Type III (L) Arrow	P						42
	SC-13	46.73′ L+ "OSF" 62+57.87		Type III (R) Arrow	P						42
	SC-14	43.14′ R+ "ORH" 25+00.32		Type III (R) Arrow	P						42
	SC-14	43.24′ R+ "ORH" 26+86.06		Type III (R) Arrow	P						42
	SC-14	35.11′ R+ "ONF" 43+00.69		Type III (L) Arrow	P						42
	SC-14	43.86′ R+ "ONF" 43+02.66		Type III (R) Arrow	P						42
	SC-16	11.22′ R+ "ORH" 14+81.55		Type III (L) Arrow	P						42
	SC-16	3.77′ R+ "ORH" 16+08.03		Type III (L) Arrow	P						42
	SC-14	5.19′ R+ "ORH" 28+85.08		Type III (L) Arrow	P						42
	SC-17	21.20′ L+ "ORH" 31+17.74		Type III (L) Arrow	P						42
	SC-17	43.07′ R+ "ORH" 33+46.22		Type III (R) Arrow	P						42
	SC-13	47.17′ L+ "OSF" 63+96.41		Type V Arrow	P						33
	SC-13	17.73′ L+ "OSF" 66+54.58		Type V Arrow	P						33
	SC-15	58.79′ L+ "ML" 413+97.53		Type V Arrow	P						33
	SC-16	15′ R+ "ORH" 12+60.00		"SB"	P						14
	SC-16	14′ R+ "ORH" 13+10.00		"101"	P						15
	SC-16	12′ R+ "ORH" 13+60.00		"ONLY"	P						22
	SC-17	13′ L+ "ORH" 33+00.00		"ONLY"	P						22
	SC-17	13′ L+ "ORH" 33+50.00		"101"	P						15
	SC-17	13′ L+ "ORH" 34+00.00		"NB"	P						14
	SC-23	30.62′ L+ "ORH" 30+00.07	22.03′ L+ "ORH" 32+57.87	9	P	258	7		258		
	SC-19,20,	23.00′ L+ "ML" 387+63.25	19.31′ L+ "ML" 413+21.75	12	P	2559	55		2559		
	SC-19,20,	35.00′ L+ "ML" 387+63.25	30.31′ L+ "ML" 413+21.75		P	2559	55		2559		
	SC-19,21,	19.27′ R+ "ML" 397+37.18	23.00′ R+ "ML" 420+20.00		P	2283	49		2283		
	SC-19,21,	31.27′ R+ "ML" 397+37.18	35.00′ R+ "ML" 420+20.00		P	2283	49		2283		
	SC-20	1.84′ R+ "ORH" 15+26.18	0.60′ R+ "ORH" 17+07.33	21	P	181		181			
	SC-20	22.00′ R+ "ORH" 21+86.58	18.00′ L+ "ORH" 25+06.00		P	319		319			
	SC-20	6.86′ L+ "ML" 398+92.44	7.88′ L+ "ML" 406+80.95	25	P	789	18	789			
	SC-21	7.05′ R+ "ML" 398+92.44	6.89′ R+ "ML" 406+80.95		P	789	18	789			
	SC-22	7.00′ R+ "ML" 416+00.00	11.00′ R+ "ML" 420+20.00		P	420	10	420			
	SC-20	0.00′ "OSN" 91+73.31	57.11′ R+ "OSN" 92+33.66	25A	P	104	6	104			
	SC-20	12.00′ L+ "OSN" 91+62.11	7.99′ L+ "OSN" 92+64.00		P	102	6	102			
	SC-20	5.58′ L+ "OSN" 92+74.69	0.00′ "OSN" 93+04.42		P	30	3	30			
	SC-21	0.00′ "ONN" 40+00.00	4.08′ R+ "ONN" 40+40.72		P	41	3	41			
	SC-21	5.79′ R+ "ONN" 40+51.21	24.00′ R+ "ONN" 41+50.39		P	99	6	99			
	SC-21	44.16′ L+ "ORH" 25+24.13	0.00′ "ONN" 41+47.27		P	96	6	96			
	SC-21	19.77′ L+ "ONF" 35+85.19	27.59′ R+ "ORH" 28+07.46		P	800	35	800			
2A	SC-19,21	44.85′ R+ "ML" 397+37.18	40.75′ R+ "ML" 400+99.90	27B	P	363			363		
	SC-20	12.00′ L+ "OSN" 91+73.32	36.69′ R+ "OSN" 92+46.19		P	92			92		
	SC-20	12.47′ L+ "OSN" 92+35.26	25.27′ R+ "OSN" 92+58.38		P	45			45		
	SC-20	25.84′ R+ "ORH" 15+27.29	24.60′ R+ "ORH" 17+07.49		P	180			180		
	SC-20	7.65′ L+ "ORH" 18+09.05	2.45′ L+ "ORH" 18+80.87		P	72			72		
	SC-20	48.00′ R+ "ORH" 18+40.00	21.30′ L+ "OSN" 92+80.81		P	133			133		
	SC-20	24.00′ LT "OSN" 91+46.97	23.86′ L+ "OSN" 92+66.96		P	120			120		
	SC-21	10.00′ R+ "ORH" 21+86.58	30.00′ L+ "ORH" 25+06.00		P	318			318		
	SC-21	34.00′ R+ "ORH" 21+86.58	2.00′ L+ "ORH" 27+29.77		P	543			543		
	SC-21,23	30.00′ L+ "ORH" 25+80.95	30.62′ L+ "ORH" 30+00.07		P	419			419		
	SC-21,23	18.17′ R+ "ONN" 40+40.72	10.06′ L+ "ORH" 32+57.87		P	656			656		
	SC-21	19.70′ R+ "ONN" 40+49.25	24.00′ R+ "ONN" 41+50.39		P	101			101		
	SC-21,23	7.84′ L+ "ONF" 35+83.94	8.20′ R+ "ORH" 32+42.23		P	1246			1246		
	SC-21	16.66′ L+ "ORH" 25+80.95	16.00′ L+ "ORH" 27+31.99	28	P	151		302			
	SC-21	18.00′ L+ "ORH" 25+80.95	16.00′ L+ "ORH" 27+31.99		P	151		302			
	SC-21,23	17.24′ L+ "ORH" 28+38.78	16.00′ L+ "ORH" 30+57.51		P	219		437			
	SC-21,23	17.24′ L+ "ORH" 28+38.78	1.06′ R+ "ORH" 34+44.06		P	605		1211			
	SC-23	15.19′ L+ "ORH" 31+79.93	10.06′ L+ "ORH" 32+57.15		P	77		154			
		SHEET TOTAL				19201	326	6176	14229	0	789

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STAGE CONSTRUCTION QUANTITIES
SCQ-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: HUEY NHAM
CHECKED BY: DAVID WILLIAMS
REVISED BY: HN — DATE REVISED: 4/19/12
HN — 5/24/12

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 07:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	205	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

STAGE CONSTRUCTION QUANTITIES

STAGE	SHEET No.	STATION FROM	STATION TO	DETAIL No. OR MARKING	TYPE (P) PAINT (T) THERMO-PLASTIC	LENGTH (N)	TEMPORARY PAVEMENT MARKER	TEMPORARY TRAFFIC STRIPE (PAINT) 4" YELLOW	4" WHITE	8" WHITE	TEMPORARY PAVEMENT MARKING (PAINT)
						LF	EA	LF			SQFT
	SC-20	1.84′ R+ "ORH" 15+26.74	13.77′ R+ "ORH" 17+71.80	38A	P	245				245	
	SC-20	12.60′ R+ "ORH" 17+07.41	0.00′ "OSN" 93+04.42		P	249				249	
	SC-21,23	0.00′ "ONN" 40+00.00	30.62′ L+ "ORH" 30+00.07		P	368				368	
	SC-21	17.00′ R+ "ONF" 41+19.53	17.00′ R+ "ONF" 43+73.14		P	254				254	
	SC-20	15.91′ R+ "ORH" 19+99.30	19.52′ R+ "ORH" 20+71.38	40	P	72			72		
	SC-21	18.00′ L+ "ORH" 25+06.00	16.66′ L+ "ORH" 25+80.95		P	75			75		
	SC-21	18.00′ L+ "ORH" 27+29.99	27.59′ R+ "ORH" 28+07.46		P	104			104		
	SC-20	13.72′ L+ "OSN" 91+94.83	8.45′ L+ "OSN" 91+98.02	Diagonal (12" White)	P	6					6
	SC-20	13.94′ L+ "OSN" 92+08.09	2.62′ L+ "OSN" 92+11.97	Diagonal (12" White)	P	12					12
	SC-20	13.58′ L+ "OSN" 92+20.81	5.30′ " R+ "OSN" 92+23.50	Diagonal (12" White)	P	19					19
	SC-20	12.69′ L+ "OSN" 92+33.06	14.76′ R+ "OSN" 92+32.79	Diagonal (12" White)	P	27					27
	SC-20	3.38′ L+ "OSN" 92+43.46	25.33′ R+ "OSN" 92+40.22	Diagonal (12" White)	P	29					29
	SC-20	8.25′ R+ "OSN" 92+51.06	36.69′ R+ "OSN" 92+46.19	Diagonal (12" White)	P	29					29
	SC-20	20.70′ R+ "OSN" 92+56.70	28.01′ R+ "OSN" 92+54.91	Diagonal (12" White)	P	8					8
	SC-20	11.24′ R+ "OSN" 92+21.83		Type I (24′) Arrow	P						31
	SC-20	10.35′ L+ "OSN" 92+81.86		Type I (24′) Arrow	P						31
	SC-20	6.84′ R+ "ORH" 16+73.31		Type I (24′) Arrow	P						31
	SC-20	4.21′ R+ "ORH" 18+88.60		Type I (24′) Arrow	P						31
	SC-20	19.62′ R+ "ORH" 19+55.06		Type I (24′) Arrow	P						31
	SC-21	8.16′ R+ "ONF" 39+84.94		Type I (24′) Arrow	P						31
	SC-21	24.19′ L+ "ORH" 25+90.10		Type I (24′) Arrow	P						31
	SC-21	9.14′ L+ "ORH" 26+95.88		Type I (24′) Arrow	P						31
	SC-21	24.82′ L+ "ORH" 28+50.46		Type I (24′) Arrow	P						31
	SC-21	9.32′ R+ "ONN" 40+33.59		Type I (24′) Arrow	P						31
	SC-21	37.23′ L+ "ONN" 40+80.35		Type I (24′) Arrow	P						31
	SC-23	25.03′ L+ "ORH" 29+79.65		Type I (24′) Arrow	P						31
	SC-23	22.97′ L+ "ORH" 31+29.74		Type I (24′) Arrow	P						31
2A	SC-20	12.07′ R+ "ORH" 20+76.73		Type II (L) Arrow	P						42
	SC-20	10.15′ L+ "ORH" 24+72.04		Type II (L) Arrow	P						42
	SC-20	18.39′ R+ "ORH" 14+92.75		Type III (R) Arrow	P						42
	SC-20	16.33′ R+ "ORH" 16+73.42		Type III (R) Arrow	P						42
	SC-20	39.39′ R+ "ORH" 18+40.72		Type III (R) Arrow	P						42
	SC-21	21.23′ R+ "ONF" 41+19.80		Type III (R) Arrow	P						42
	SC-21	13.53′ R+ "ONF" 41+19.91		Type III (L) Arrow	P						42
	SC-21	11.74′ R+ "ONF" 43+40.48		Type III (L) Arrow	P						42
	SC-21	20.82′ R+ "ONF" 43+42.03		Type III (R) Arrow	P						42
	SC-21	40.03′ L+ "ORH" 28+50.29		Type III (R) Arrow	P						42
	SC-23	37.01′ L+ "ORH" 29+80.14		Type III (R) Arrow	P						42
	SC-23	34.71′ L+ "ORH" 31+30.50		Type III (R) Arrow	P						42
	SC-20	0.60′ R+ "ORH" 17+07.33	12.60′ R+ "ORH" 17+07.41	Limit Line (12" White)	P	12					12
	SC-20	28.57′ L+ "OSN" 92+85.45	52.00′ L+ "ORH" 19+92.62	Limit Line (12" White)	P	126					126
	SC-20	31.17′ L+ "OSN" 92+69.35	52.00′ L+ "ORH" 20+02.63	Limit Line (12" White)	P	132					132
	SC-20	19.52′ R+ "ORH" 20+71.38	7.57′ R+ "ORH" 20+71.97	Limit Line (12" White)	P	12					12
	SC-21	6.00′ L+ "ORH" 25+06.00	18.00′ L+ "ORH" 25+06.00	Limit Line (12" White)	P	12					12
	SC-21	2.00′ L+ "ORH" 27+29.77	14.00′ L+ "ORH" 27+29.99	Limit Line (12" White)	P	12					12
	SC-21	16.66′ L+ "ORH" 25+80.95	34.45′ L+ "ORH" 25+80.95	Limit Line (12" White)	P	18					18
	SC-21	34.11′ L+ "ORH" 25+15.00	28.24′ R+ "ONN" 40+31.77	Limit Line (12" White)	P	111					111
	SC-21	44.11′ L+ "ORH" 25+15.73	30.50′ R+ "ONN" 40+46.98	Limit Line (12" White)	P	101					101
	SC-21	4.00′ R+ "ONF" 43+73.14	38.45′ R+ "ONF" 43+73.14	Limit Line (12" White)	P	34					34
	SC-20	28′ R+ "ORH" 12+60.00		"SB"	P						14
	SC-20	28′ R+ "ORH" 13+10.00		"101"	P						15
	SC-20	28′ R+ "ORH" 13+60.00		"ONLY"	P						22
	SC-23	25′ L+ "ORH" 33+00.00		"ONLY"	P						22
	SC-23	25′ L+ "ORH" 33+50.00		"101"	P						15
	SC-23	25′ L+ "ORH" 34+00.00		"NB"	P						14
		SHEET TOTAL				2067	0	0	251	1115	1710

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REVISED BY	DATE REVISED
HN	5/24/12
HN	4/19/12

CALCULATED-DESIGNED BY: HUEY NHAM
CHECKED BY: DAVID WILLIAMS
CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

STAGE CONSTRUCTION QUANTITIES
SCQ-10

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	206	535

David Williams 4/19/12
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STAGE CONSTRUCTION QUANTITIES

STAGE	SHEET No.	STATION FROM	STATION TO	DETAIL No. OR MARKING	TYPE (P) PAINT (T) THERMO-PLASTIC	LENGTH (N) LF	TEMPORARY PAVEMENT MARKER EA	TEMPORARY TRAFFIC STRIPE (PAINT) 4" YELLOW LF	4" WHITE LF	8" WHITE LF	TEMPORARY PAVEMENT MARKING (PAINT) SQFT
3	SC-29	21.75′ R+ "ORH" 12+47.74	22.00′ R+ "ORH" 15+51.44	9	P	304	8		304		
	SC-29	13.76′ R+ "ORH" 31+15.00	23.0′± R+ "ORH" 33+07.1±		P	304	8		304		
	SC-29	25.76′ R+ "ORH" 31+14.97	34.0′± R+ "ORH" 33+07.1±		P	304	8		304		
	SC-25,27	23.30′ R+ "ML" 392+00.00	17.75′ R+ "ML" 401+00.00	12	P	900	20		900		
	SC-25,27	35.30′ R+ "ML" 392+00.00	28.75′ R+ "ML" 401+00.00		P	900	20		900		
	SC-25,26,	19.23′ L+ "ML" 396+11.72	19.30′ L+ "ML" 413+20.00		P	1708	37		1708		
	SC-25,26,	30.11′ L+ "ML" 396+11.72	32.91′ L+ "ML" 414+99.87		P	1888	41		1888		
	SC-26,29	4.58′ R+ "ORH" 11+80.72	10.00′ R+ "ORH" 17+07.41	21	P	527		527			
	SC-26	15.91′ R+ "ORH" 19+99.30	18.98′ R+ "ORH" 20+60.51		P	61		61			
	SC-27	18.00′ L+ "ORH" 25+06.00	16.66′ L+ "ORH" 25+80.95		P	75		75			
	SC-27	18.00′ L+ "ORH" 25+06.00	18.00′ L+ "ORH" 25+80.95		P	75		75			
	SC-25	11.30′ R+ "ML" 392+00.00	7.34′ R+ "ML" 395+99.93	25	P	400	10	400			
	SC-25,26,	7.78′ L+ "ML" 396+11.72	7.31 L+ "ML" 413+20.00		P	1708	37	1708			
	SC-25,27	0.00′ "ONF" 31+99.58	21.71′ R+ "ORH" 28+26.42	25A	P	1392	60	1392			
	SC-26	0.00′ "OSN" 91+73.07	7.99′ L+ "OSN" 92+64.00		P	87	5	87			
	SC-26	0.00′ "OSNL" 82+35.13	36.00′ R+ "ORH" 18+92.29		P	156	8	156			
	SC-26	8.12′ R+ "OSF" 60+14.94	12.00′ L+ "OSF" 66+47.87		P	633	28	633			
	SC-27	0.00′ "ONNL" 50+00.00	0.00′ "ONNL" 51+55.50		P	156	8	156			
	SC-27	5.79′ R+ "ONN" 40+51.21	0.00′ "ONN" 41+47.25		P	96	6	96			
	SC-27,30	41.00′ R+ "ONF" 40+21.37	13.76′ R+ "ORH" 31+15.00		P	96	6	96			
	SC-25,27,	47.30′ R+ "ML" 392+00.00	25.76′ R+ "ORH" 31+14.97	27B	P	1907			1907		
	SC-25	47.30′ R+ "ML" 394+27.86	41.82′ R+ "ML" 395+99.93		P	172			172		
	SC-26	22.00′ R+ "ORH" 17+07.41	22.17′ R+ "ORH" 18+87.98		P	181			181		
	SC-26,29	2.00′ L+ "ORH" 14+87.31	24.00′ L+ "OSF" 66+48.64		P	938			938		
	SC-26	2.00′ L+ "ORH" 18+40.46	1.04′ L+ "ORH" 18+98.90		P	58			58		
	SC-26	31.36′ R+ "ORH" 20+32.12	33.51′ R+ "ORH" 20+60.81		P	29			29		
	SC-26,27	48.00′ L+ "ORH" 20+02.44	30.00′ L+ "ORH" 24+00.73		P	398			398		
	SC-27	40.75′ R+ "ML" 400+99.90	40.96′ R+ "ML" 407+82.50		P	683			683		
	SC-27	35.33′ R+ "ONF" 40+14.63	21.66′ R+ "ORH" 28+38.38		P	412			412		
	SC-26,27	30.00′ R+ "ORH" 22+25.57	27.00′ R+ "ONNL" 51+79.07		P	592			592		
	SC-27	30.00′ L+ "ORH" 25+05.00	30.00′ L+ "ORH" 25+80.95		P	76			76		
	SC-27	2.00′ L+ "ORH" 27+29.99	2.78′ L+ "ORH" 27+79.95		P	50			50		
	SC-27	3.60′ L+ "ORH" 28+37.23	4.00′ L+ "ORH" 29+04.51		P	67			67		
	SC-27	46.11′ L+ "ORH" 12+14.02	2.00′ L+ "ORH" 13+05.32		P	91			91		
	SC-25	47.30′ R+ "ML" 394+27.86	0.00′ "ONF" 31+99.58	38A	P	200				200	
	SC-26	22.00′ R+ "ORH" 15+51.44	36.00′ R+ "ORH" 18+40.00		P	289				289	
	SC-26	36.00′ R+ "ORH" 18+92.29	36.00′ R+ "ORH" 19+91.84		P	100				100	
	SC-26	36.00′ R+ "ORH" 20+01.85	18.00′ L+ "ORH" 23+26.91		P	325				325	
	SC-26	7.00′ L+ "ORH" 17+49.93	17.40′ L+ "OSF" 65+22.66		P	551				551	
	SC-26	7.00′ L+ "ORH" 17+83.49	17.40′ L+ "OSF" 65+22.66		P	536				536	
	SC-27	34.98′ R+ "ONF" 38+99.66	35.33′ R+ "ONF" 40+14.63		P	115				115	
	SC-27	34.98′ R+ "ONF" 38+99.66	41.00′ R+ "ONF" 40+21.37		P	122				122	
	SC-27	18.00′ R+ "ORH" 22+77.71	0.00′ "ONNL" 50+00.00		P	419				419	
	SC-26	10.00′ R+ "ORH" 17+07.41	10.94′ R+ "ORH" 18+98.16	40	P	191			191		
	SC-26	8.12′ R+ "OSF" 60+14.94	10.00′ R+ "ORH" 18+40.45		P	52			52		
	SC-26,27	30.00′ R+ "ORH" 22+25.57	18.00′ R+ "ORH" 22+77.71		P	52			52		
	SC-27	18.00′ L+ "ORH" 23+26.91	30.00′ L+ "ORH" 24+00.73		P	74			74		
	SC-27	18.00′ L+ "ORH" 27+62.48	21.71′ R+ "ORH" 28+26.42		P	87			87		
	SC-26	15.51′ R+ "ORH" 16+73.48		Type I (24′) Arrow	P						31
	SC-26	13.27′ R+ "ORH" 20+76.90		Type I (24′) Arrow	P						31
	SC-27	11.73′ R+ "ORH" 22+75.99		Type I (24′) Arrow	P						31
	SC-27	6.62′ L+ "ORH" 23+03.67		Type I (24′) Arrow	P						31
	SC-27	12.31′ L+ "ORH" 24+72.13		Type I (24′) Arrow	P						31
	SC-29	16.04′ R+ "ORH" 15+52.00		Type I (24′) Arrow	P						31
	SC-26	25.09′ "ORH" 16+73.49		Type III (R) Arrow	P						42
	SC-26	41.51′ L+ "ORH" 19+55.27		Type III (R) Arrow	P						42
	SC-26	36.90′ L+ "OSF" 60+18.90		Type III (R) Arrow	P						42
		SHEET TOTAL				20534	310	5461	12416	2656	312

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: HUEY NHAM
CHECKED BY: DAVID WILLIAMS
REVISED BY: HN — DATE REVISED: 4/19/12
HN — 5/24/12

STAGE CONSTRUCTION QUANTITIES
SCQ-11

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	207	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

URS CORPORATION
1380 Lead Hill Blvd.
Suite 100
Roseville, CA 95661

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

STAGE CONSTRUCTION QUANTITIES

STAGE	SHEET No.	STATION FROM	STATION TO	DETAIL No. OR MARKING	TYPE (P) PAINT (T) THERMO-PLASTIC	LENGTH (N)	TEMPORARY PAVEMENT MARKER	TEMPORARY TRAFFIC STRIPE (PAINT) 4" YELLOW	4" WHITE	8" WHITE	TEMPORARY PAVEMENT MARKING (PAINT)
						LF	EA	LF			SQFT
3	SC-26	4.25′ Lt "OSF" 60+19.35		Type III (L) Arrow	P						42
	SC-26	27.56′ Lt "OSF" 62+65.69		Type III (R) Arrow	P						42
	SC-26	6.95′ Lt "OSF" 62+64.17		Type III (L) Arrow	P						42
	SC-26	24.53′ Lt "OSF" 64+98.77		Type III (R) Arrow	P						42
	SC-26	10.67′ Lt "OSF" 64+99.15		Type III (L) Arrow	P						42
	SC-27	38.27′ Rt "ONF" 38+99.84		Type III (R) Arrow	P						42
	SC-27	31.56′ Rt "ONF" 39+00.34		Type III (L) Arrow	P						42
	SC-27	46.04′ Rt "ONF" 43+09.12		Type III (R) Arrow	P						42
	SC-27	30.61′ Rt "ONF" 43+48.24		Type III (L) Arrow	P						42
	SC-29	26.65′ Rt "ORH" 15+52.82		Type III (R) Arrow	P						42
	SC-30	43.07′ "ORH" 33+46.22		Type III (R) Arrow	P						42
	SC-27	20.58′ Rt "ONF" 37+01.62		Type V Arrow	P						33
	SC-26	19.04′ Lt "ORH" 17+38.07	8.12′ Rt "OSF" 60+14.94	Limit Line (12" White)	P	66					66
	SC-26	10.00′ Rt "ORH" 17+07.41	22.00′ Rt "ORH" 17+07.41	Limit Line (12" White)	P	12					12
	SC-27	21.71′ Rt "ORH" 28+26.42	21.66′ Rt "ORH" 28+38.38	Limit Line (12" White)	P	12					12
	SC-29	28′ Rt "ORH" 13+10.00		"101"	P						15
	SC-29	28′ Rt "ORH" 13+60.00		"ONLY"	P						22
3A	SC-34	31.62′ Lt "ORH" 12+16.70	35.00′ Lt "ORH" 14+09.80	9	P	193	6		193		
	SC-34	20.12′ Lt "ORH" 12+42.58	22.63′ Lt "ORH" 14+10.00		P	167	5		167		
	SC-34	14.18′ Lt "ORH" 12+90.20	6.59′ Lt "ORH" 13+73.50		P	83	3		83		
	SC-32	10.00′ Rt "ORH" 17+07.41	10.95′ Rt "ORH" 18+98.37	21	P	191		191	191		
	SC-34	6.95′ Rt "ORH" 12+29.22	10.00′ Rt "ORH" 14+23.50		P	196		196	196		
	SC-32,34	22.63′ Lt "ORH" 14+10.00	12.00′ Lt "OSF" 66+48.64	25A	P	1001	43	1001	1001		
	SC-33	16.05′ Rt "ONF" 37+29.16	34.98′ Rt "ONF" 38+99.66		P	171	9	171	171		
	SC-32	2.00′ Lt "ORH" 16+96.19	1.05′ Lt "ORH" 18+98.37	27B	P	202			202		
	SC-32,34	37.13′ Lt "ORH" 16+21.90	24.00′ Lt "OSF" 66+48.64		P	787			787		
	SC-33	41.82′ Rt "ML" 395+99.93	44.29′ Rt "ML" 397+86.44		P	187			187		
	SC-33	2.78′ Lt "ORH" 27+79.95	3.59′ Lt "ORH" 28+37.23		P	57			57		
	SC-34	6.59′ Lt "ORH" 13+73.50	1.95′ Lt "ORH" 14+24.58		P	51			51		
	SC-33	14.00′ Lt "ORH" 27+29.99	15.68′ Lt "ORH" 28+40.34	28	P	110		221			
	SC-33	18.00′ Lt "ORH" 27+29.99	18.77′ Lt "ORH" 28+40.31		P	110		221			
	SC-34	7.55′ Lt "ORH" 11+79.06	8.10′ Lt "ORH" 12+29.01	38A	P	50				50	
	SC-34	28.45′ Lt "ORH" 13+85.24		Type I (24′) Arrow	P						31
	SC-32	54.81′ IT "OSF" 60+85.37		Type III Arrow	P						42
	SC-32	53.87′ Lt "OSF" 62+48.41		Type III Arrow	P						42
	SC-32	47.13′ Lt "OSF" 64+48.52		Type III Arrow	P						42
	SC-34	39.99′ Lt "ORH" 13+85.33		Type III Arrow	P						42
	SC-34	10.00′ Rt "ORH" 15+61.20	2.00′ Lt "ORH" 15+61.20	Limit Line (12" White)	P	12					12
	SC-34	23.64′ Lt "ORH"15+61.20	36.22′ Lt "ORH" 15+61.20	Limit Line (12" White)	P	13					13
4	SC-36,38,	23.30′ Rt "ML" 394+27.86	23.00′ Rt "ML" 420+20.00	12	P	2592	56		2592		
	SC-36,38,	35.30′ Rt "ML" 394+27.86	35.00′ Rt "ML" 420+20.00		P	2592	56		2592		
	SC-37,40	4.67′ Rt "ORH" 11+78.11	23.00′ Lt "ORH" 17+30.00	21	P	552		552			
	SC-37,38	24.00′ Lt "ORH" 18+92.29	14.96′ Rt "ORH" 24+28.71		P	536		536			
	SC-38	16.24′ Rt "ORH" 24+40.01	24.00′ Rt "ORH" 27+11.73		P	272		272			
	SC-38	21.09′ Rt "ORH" 28+51.52	5.84′ Lt "ORH" 33+36.88		P	485		485			
	SC-36,38,	11.30′ Rt "ML" 394+27.86	11.00′ Rt "ML" 420+20.00	25	P	2592	56	2592			
	SC-38	0.00′ "ONNL" 51+41.50	31.04′ Lt "ONNL" 50+82.61	25A	P	75	5	75			
	SC-36,38	47.30′ Rt "ML" 394+27.86	49.30′ Rt "ML" 404+82.49	27B	P	1055			1055		
	SC-37,38	11.00′ Lt "ORH" 17+30.00	26.16′ Rt "ORH" 24+20.90		P	691			691		
	SC-37	48.00′ Lt "ORH" 19+92.43	48.00′ Lt "ORH" 20+02.44		P	10			10		
	SC-37,38	33.88′ Lt "ORH" 21+22.99	3.77′ Rt "ORH" 24+36.52		P	314			314		
	SC-38,41	5.04′ Rt "ORH" 24+47.82	28.71′ Lt "ORH" 34+00.04		P	952			952		
	SC-38	54.00′ Rt "ONF" 40+11.98	83.31′ Rt "ONF" 43+55.80		P	344			344		
	SC-38,41	39.93′ Rt "ORH" 29+02.05	30.43′ Rt "ORH" 31+57.51		P	255			255		
	SC-40	40.38′ Rt "ORH" 11+75.40	11.00′ Lt "ORH" 13+05.33		P	141			141		
		SHEET TOTAL				17130	239	6512	12232	50	846

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: HUEY NHAM
CHECKED BY: DAVID WILLIAMS
REVISED BY: HN — DATE REVISED: 4/19/12
REVISED BY: HN — DATE REVISED: 5/24/12

STAGE CONSTRUCTION QUANTITIES
SCQ-12

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 07:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	208	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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URS CORPORATION
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Suite 100
Roseville, CA 95661

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

STAGE CONSTRUCTION QUANTITIES

STAGE	SHEET No.	STATION FROM	STATION TO	DETAIL No. OR MARKING	TYPE (P) PAINT (T) THERMO-PLASTIC	(N) LENGTH	TEMPORARY PAVEMENT MARKER	TEMPORARY TRAFFIC STRIPE (PAINT) 4" YELLOW	4" WHITE	8" WHITE	TEMPORARY PAVEMENT MARKING (PAINT)
						LF	EA	LF			SQFT
4	SC-37	54.00′ Lt "OSF" 60+82.49	54.00′ Lt "OSF" 63+17.61	38A	P	235				235	
	SC-37	36.00′ Lt "ORH" 19+91.84	36.00′ Lt "ORH" 20+01.85		P	10				10	
	SC-38	36.00′ Rt "ORH" 25+20.99	5.25′ Rt "ONNL" 50+54.50		P	229				229	
	SC-38	7.06′ Rt "ONNL" 50+66.64	12.00′ Rt "ONNL" 51+55.50		P	89				89	
	SC-38	54.00′ Rt "ONF" 41+15.62	54.00′ Rt "ONF" 43+20.93		P	205				205	
	SC-37	23.00′ Lt "ORH" 17+30.00	24.00′ Lt "ORH" 18+92.29	40	P	162			162		
	SC-37	23.15′ Lt "ORH" 17+49.63	53.05′ Lt "ORH" 18+03.86		P	65			65		
	SC-37	23.47′ Lt "ORH" 17+92.87	47.09′ Lt "ORH" 17+52.94		P	49			49		
	SC-37	40.00′ Lt "OSF" 60+56.20	42.00′ Lt "OSF" 60+81.50		P	29			29		
	SC-37	20.09′ Rt "OSF" 60+64.66	19.16′ Rt "OSF" 61+04.77		P	38			38		
	SC-38	8.23′ Lt "ONF" 43+47.16	21.09′ Rt "ORH" 28+51.52		P	72			72		
	SC-37	29.94′ Lt "ORH" 1902+39		Type I (24′) Arrow	P						31
	SC-37	29.68′ Lt "ORH" 20+06.94		Type I (24′) Arrow	P						31
	SC-37	13.25′ Lt "OSNL" 82+81.93		Type I (24′) Arrow	P						31
	SC-38	30.14′ Rt "ORH" 25+25.77		Type I (24′) Arrow	P						31
	SC-38	29.93′ Rt "ORH" 26+77.66		Type I (24′) Arrow	P						31
	SC-40	17.02′ Lt "ORH" 13+06.16		Type I (24′) Arrow	P						31
	SC-41	24.07′ Rt "ORH" 31+25.90		Type I (24′) Arrow	P						31
	SC-41	12.01′ Rt "ORH" 31+26.26		Type I (24′) Arrow	P						31
	SC-37	15.15′ Lt "ORH" 16+95.94		Type II (L) Arrow	P						42
	SC-38	13.03′ Rt "ORH" 28+61.32		Type II (L) Arrow	P						42
	SC-37	42.03′ Lt "ORH" 20+07.31		Type III (R) Arrow	P						42
	SC-37	60.32′ Lt "OSF" 60+89.67		Type III (R) Arrow	P						42
	SC-37	49.45′ Lt "OSF" 60+89.83		Type III (L) Arrow	P						42
	SC-37	59.83′ Lt "OSF" 62+97.49		Type III (R) Arrow	P						42
	SC-37	48.77′ Lt "OSF" 62+97.28		Type III (L) Arrow	P						42
	SC-38	50.56′ Rt "ONF" 41+15.63		Type III (L) Arrow	P						42
	SC-38	57.03′ Rt "ONF" 41+15.73		Type III (R) Arrow	P						42
	SC-38	50.17′ Rt "ONF" 42+92.26		Type III (L) Arrow	P						42
	SC-38	57.43′ Rt "ONF" 42+93.22		Type III (R) Arrow	P						42
	SC-40	35.34′ Rt "ORH" 10+47.25		Type III (R) Arrow	P						42
	SC-38	44.83′ Rt "ONF" 39+36.46		Type V Arrow	P						33
	SC-41	19.43′ Lt "ORH" 33+99.37		Type VI (L) Arrow	P						42
	SC-41	19.62′ Lt "ORH" 34+64.47		Type VI (L) Arrow	P						42
	SC-37	38.82′ Lt "ORH" 16+82.23	22.63′ Lt "OSNL" 83+46.69	Limit Line (12" White)	P	194					194
	SC-37	51.60′ Lt "ORH" 17+05.36	26.04′ Lt "OSNL" 83+66.65	Limit Line (12" White)	P	159					159
	SC-37	24.00′ Lt "ORH" 18+92.29	49.65′ Lt "ORH" 18+92.29	Limit Line (12" White)	P	26					26
	SC-38	34.92′ Rt "ORH" 24+14.79	34.00′ Lt "ORH" 24+62.86	Limit Line (12" White)	P	84					84
	SC-38	37.06′ Rt "ORH" 24+25.49	34.00′ Lt "ORH" 24+75.05	Limit Line (12" White)	P	87					87
	SC-38	42.00′ Rt "ONF" 43+20.93	66.00′ Rt "ONF" 43+20.93	Limit Line (12" White)	P	24					24
	SC-38	19.44′ Rt "ONNL" 50+09.17	1.70′ Lt "ONNL" 50+15.81	Limit Line (12" White)	P	22					22
	SC-38	1.70′ Lt "ONNL" 50+15.81	24.00′ Rt "ORH" 27+11.73	Limit Line (12" White)	P	12					12
	SC-38	26.15′ Rt "ONNL" 50+16.06	39.93′ Rt "ORH" 29+02.05	Limit Line (12" White)	P	198					198
	SC-38	31.05′ Rt "ONNL" 50+36.31	50.51 Rt "ORH" 28+97.26	Limit Line (12" White)	P	183					183
	SC-38	21.09′ Rt "ORH" 28+51.52	9.10′ Rt "ORH" 28+51.15	Limit Line (12" White)	P	12					12
			SHEET TOTAL (SCQ-13)			2183	0	0	414	768	1869
			SHEET TOTAL (SCQ-12)			17130	239	6512	12232	50	846
			SHEET TOTAL (SCQ-11)			20534	310	5461	12416	2656	312
			SHEET TOTAL (SCQ-10)			2067	0	0	251	1115	1710
			SHEET TOTAL (SCQ-9)			19201	326	6176	14229	0	789
			SHEET TOTAL (SCQ-8)			12909	128	4084	7020	1003	1359
			SHEET TOTAL (SCQ-7)			15263	252	3832	11451	500	346
			GRAND TOTAL			89287	1255	26065	58013	6092	7231
								90170			

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: HUEY NHAM
CHECKED BY: DAVID WILLIAMS
REVISED BY: HN — DATE REVISED: 4/19/12
REVISED BY: HN — DATE REVISED: 5/24/12

STAGE CONSTRUCTION QUANTITIES
SCQ-13

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	209	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
David A. Williams
No. C58697
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

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CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

STAGE CONSTRUCTION QUANTITIES

STAGE	TEMPORARY RAILING (TYPE K)	TEMPORARY ALTERNATIVE CRASH CUSHION SYSTEM (TYPE 1)	TEMPORARY ALTERNATIVE CRASH CUSHION SYSTEM (TYPE 2)	TEMPORARY CRASH CUSHION MODULE	CHANNELIZER (SURFACE MOUNTED)	TYPE III BARRICADE	TEMPORARY RETAINING WALL
	LF	EA	EA	EA	EA	EA	SQFT
1	7,620	9		28	75		535
1A	2,440	8	2	11	62		6,200
2	2,780	6			33	7	2,094
2A	8,020	10	2	36	64	11	6,655
3	3,360	5	4	42	71	13	6,477
3A	1,220	3		11	20	11	2,271
4	1,540	3		22	15	25	
4A		2			7		
5							
DE PLAN						2	
TOTAL	26,980	46	8	150	347	69	24,232

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: HUEY NHAM
CHECKED BY: DAVID WILLIAMS
REVISED BY: HN
DATE REVISED: 4/19/12
REVISED BY: HN
DATE REVISED: 5/24/12

STAGE CONSTRUCTION QUANTITIES
SCQ-14

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 07:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	210	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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11 ENGLISH STREET
PETALUMA, CA 94952

CONSTRUCTION AREA SIGNS

SIGN No.	CODE	MESSAGE	PANEL SIZE (in x in)	No. OF POST & SIZE (EA-in x in)	QUANTITY (N)	REMARKS
1	SC6-3	RAMP CLOSED	48 x 48	1-4 x 6	1	
2	W20-2	DETOUR AHEAD	36 x 36	1-4 x 6	1	
3	SC3(CA)	DETOUR w/ ARROW	36 x 12	1-4 x 6	2	
	D3-1	OLD REDWOOD Hwy	48 x 18			
4	D3-1	OLD REDWOOD Hwy	48 x 18	1-4 x 6	2	
	M4-10L	DETOUR ARROW	48 x 18			
5	D3-1	OLD REDWOOD Hwy	48 x 18	1-4 x 6	2	
	M4-10R	DETOUR ARROW	48 x 18			
6	M4-8a	END DETOUR	24 x 18	1-4 x 4	1	
7	SC8(CA)(Mod)	OLD REDWOOD Hwy EXIT RAMP CLOSED USE RAMP AT EAST WASHINGTON St	66 x 42	2-4 x 6	1	

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PORTABLE CHANGEABLE MESSAGE SIGNS

LOCATION	QUANTITY
1 2 3	3
TOTAL	3

NOTES:

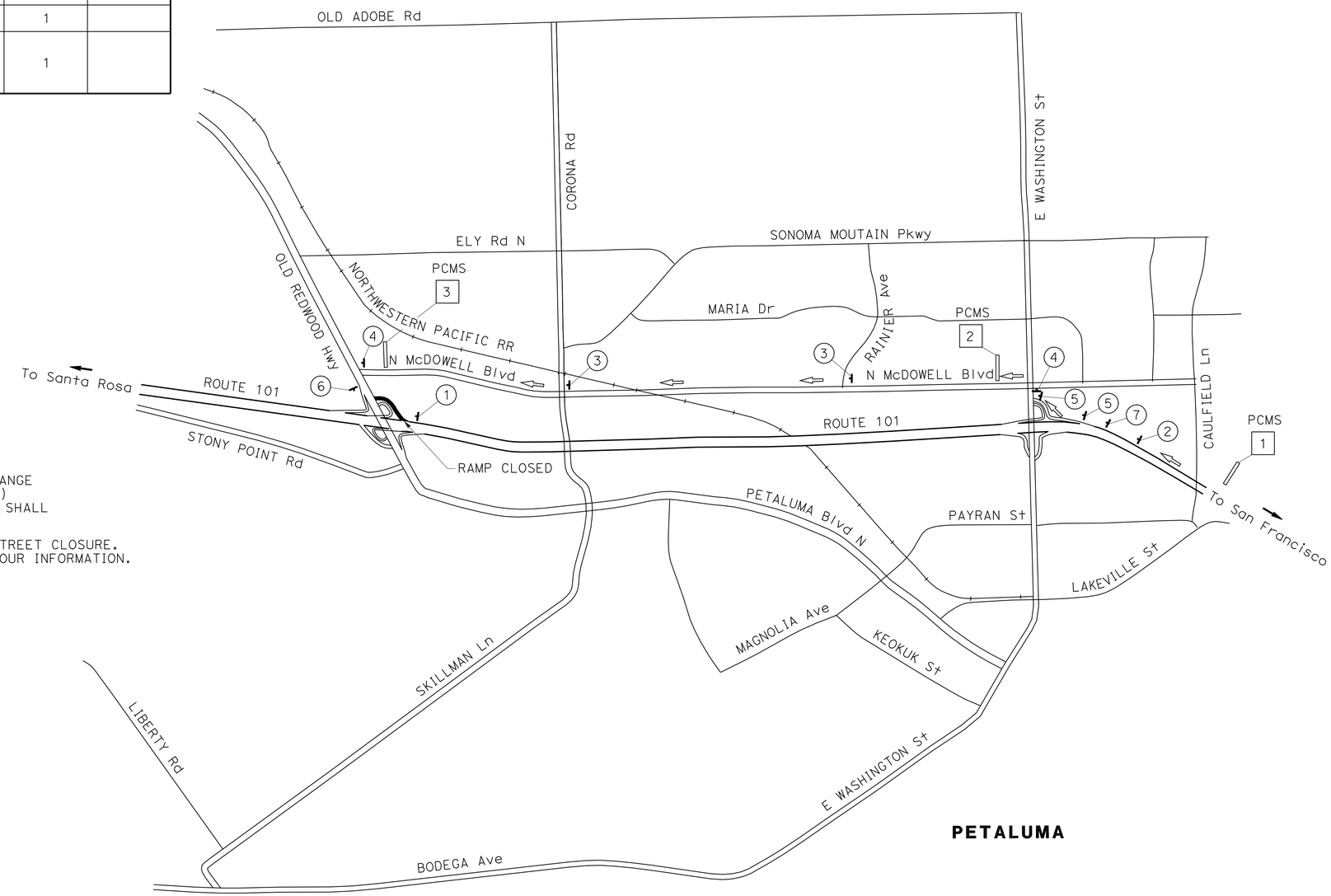
1. ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA SIGN CODES.
2. EXACT LOCATION AND POSITION OF SIGNS TO BE DETERMINED BY THE ENGINEER.
3. EXACT SIZE AND LENGTH OF WOOD POSTS TO BE DETERMINE BY THE FIELD ENGINEER.
4. SIGNS OUTSIDE OF THE OLD REDWOOD/PETALUMA Blvd N. INTERCHANGE AREA (EAST OF McDOWELL Blvd N. AND WEST OF STONY POINT Rd) SHALL BE INSTALLED WITHOUT GROUND DISTURBANCE. THE SIGNS SHALL NOT BE EMBEDDED IN THE GROUND.
5. PCMS SHALL BE INSTALLED AND TURNED ON 14 DAYS PRIOR TO STREET CLOSURE. PCMS MESSAGE SHALL PROVIDE NECESSARY AND APPROPRIATE DETOUR INFORMATION.

2.6" RADIUS, 1" BORDER, BLACK ON ORANGE
[OLD REDWOOD Hwy] D; [EXIT RAMP] D;
[CLOSED] D; [USE RAMP AT] D;
[EAST WASHINGTON St] D;

SIGN 7

LEGEND

- (No.) CONSTRUCTION AREA SIGN NUMBER
- CONSTRUCTION AREA SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- DETOUR DIRECTION



NORTHBOUND OFF-RAMP DETOUR

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY

DETOUR PLAN

NO SCALE

DE-1

HN	5/24/12		
HN	4/19/12		
REVISED BY	DATE REVISED		
HUEY NHAM	DAVID WILLIAMS	CALCULATED-DESIGNED BY	CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR	RAMSEY HISSEN		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	211	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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URS CORPORATION
1380 Lead Hill Blvd.
Suite 100
Roseville, CA 95661

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

CONSTRUCTION AREA SIGNS

SIGN No.	CODE	MESSAGE	PANEL SIZE (in x in)	No. OF POST & SIZE (EA-in x in)	QUANTITY (N)	REMARKS
1	W20-2	DETOUR AHEAD	36 x 36	1-4 x 6	1	
2	W20-3	RAMP CLOSED AHEAD	36 x 36	1-4 x 6	1	
3	SC3(CA)	DETOUR w/ ARROW	36 x 12	1-4 x 6	9	
	G26-2(CA)	US 101	28 x 24			
	M3-1	NORTH	24 x 12			
4	G26-2(CA)	US 101	28 x 24	1-4 x 6	2	
	M3-1	NORTH	24 x 12			
	M4-10L	DETOUR ARROW	48 x 18			
5	G26-2(CA)	US 101	28 x 24	1-4 x 6	5	
	M3-1	NORTH	24 x 12			
	M4-10R	DETOUR ARROW	48 x 18			
6	SC7(CA)(Mod)	US 101 NORTHBOUND RAMP CLOSED AT OLD REDWOOD Hwy USE RAMP AT ROUTE 116	84 x 42	2-4 x 6	4	
7	SC6-3	RAMP CLOSED	48 x 48	2-4 x 6	1	
	SC3(CA)	DETOUR w/ ARROW	36 x 12			
8	M4-8a	END DETOUR	24 x 18	1-4 x 4	1	

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

PORTABLE CHANGEABLE MESSAGE SIGNS

LOCATION	QUANTITY
1 2 3	3
4 5 6	3
TOTAL	6

NOTES:

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3. EXACT SIZE AND LENGTH OF WOOD POSTS TO BE DETERMINE BY THE FIELD ENGINEER.
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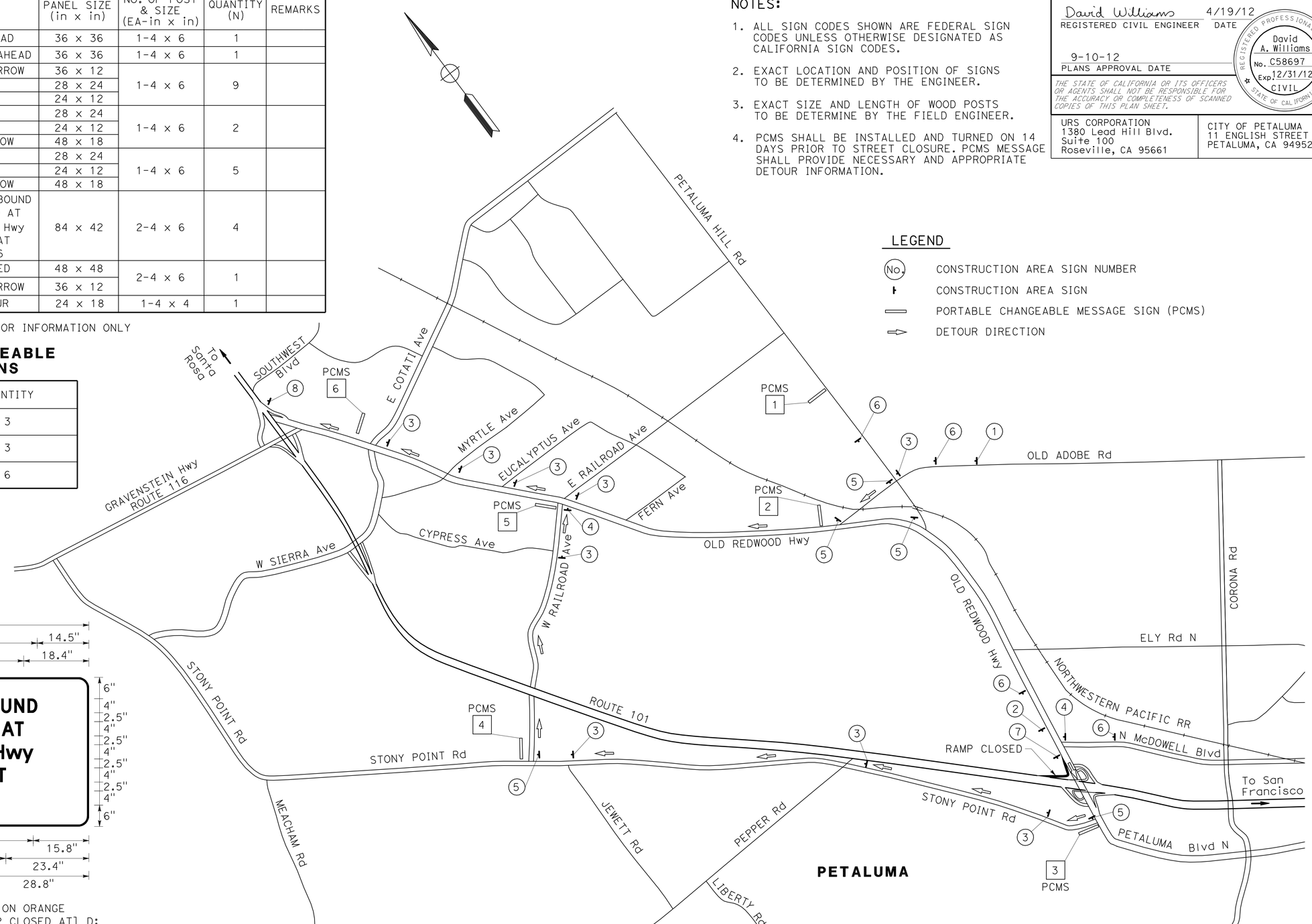
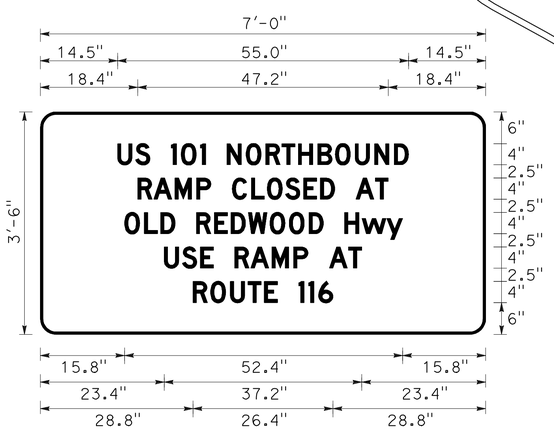
LEGEND

- (No.) CONSTRUCTION AREA SIGN NUMBER
- CONSTRUCTION AREA SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- DETOUR DIRECTION





2.6" RADIUS, 1" BORDER, BLACK ON ORANGE
[US 101 NORTHBOUND] D; [RAMP CLOSED AT] D;
[OLD REDWOOD Hwy] D; [USE RAMP AT] D;
[ROUTE 116] D;

SIGN (6)

NORTHBOUND ON-RAMP DETOUR

DETOUR PLAN

NO SCALE

DE-2

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY

HN	5/24/12	
HN	4/19/12	
REVISED BY	DATE REVISED	
HUEY NHAM	DAVID WILLIAMS	
CALCULATED-DESIGNED BY	CHECKED BY	
CONSULTANT FUNCTIONAL SUPERVISOR	RAMSEY HISSEN	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 TIME PLOTTED => 07:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	212	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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Suite 100
Roseville, CA 95661

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

CONSTRUCTION AREA SIGNS

SIGN No.	CODE	MESSAGE	PANEL SIZE (in x in)	No. OF POST & SIZE (EA-in x in)	QUANTITY (N)	REMARKS
1	W20-2	DETOUR AHEAD	36 x 36	1-4 x 6	1	
2	W20-3	RAMP CLOSED AHEAD	36 x 36	1-4 x 6	1	
3	SC3(CA)	DETOUR w/ ARROW	36 x 12	1-4 x 6	9	
	G26-2(CA)	US 101	28 x 24			
	M3-1	NORTH	24 x 12			
4	G26-2(CA)	US 101	28 x 24	1-4 x 6	1	
	M3-1	NORTH	24 x 12			
	M4-10L	DETOUR ARROW	48 x 18			
5	SC7(CA)(Mod)	US 101 NORTHBOUND RAMP CLOSED AT OLD REDWOOD Hwy USE RAMP AT ROUTE 116	84 x 42	2-4 x 6	2	
6	SC6-3	RAMP CLOSED	48 x 48	2-4 x 6	1	
	SC3(CA)	DETOUR w/ ARROW	36 x 12			
7	M4-8a	END DETOUR	24 x 18	1-4 x 4	1	

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

PORTABLE CHANGEABLE MESSAGE SIGNS

LOCATION	QUANTITY
1 2 3	3
TOTAL	3

NOTES:

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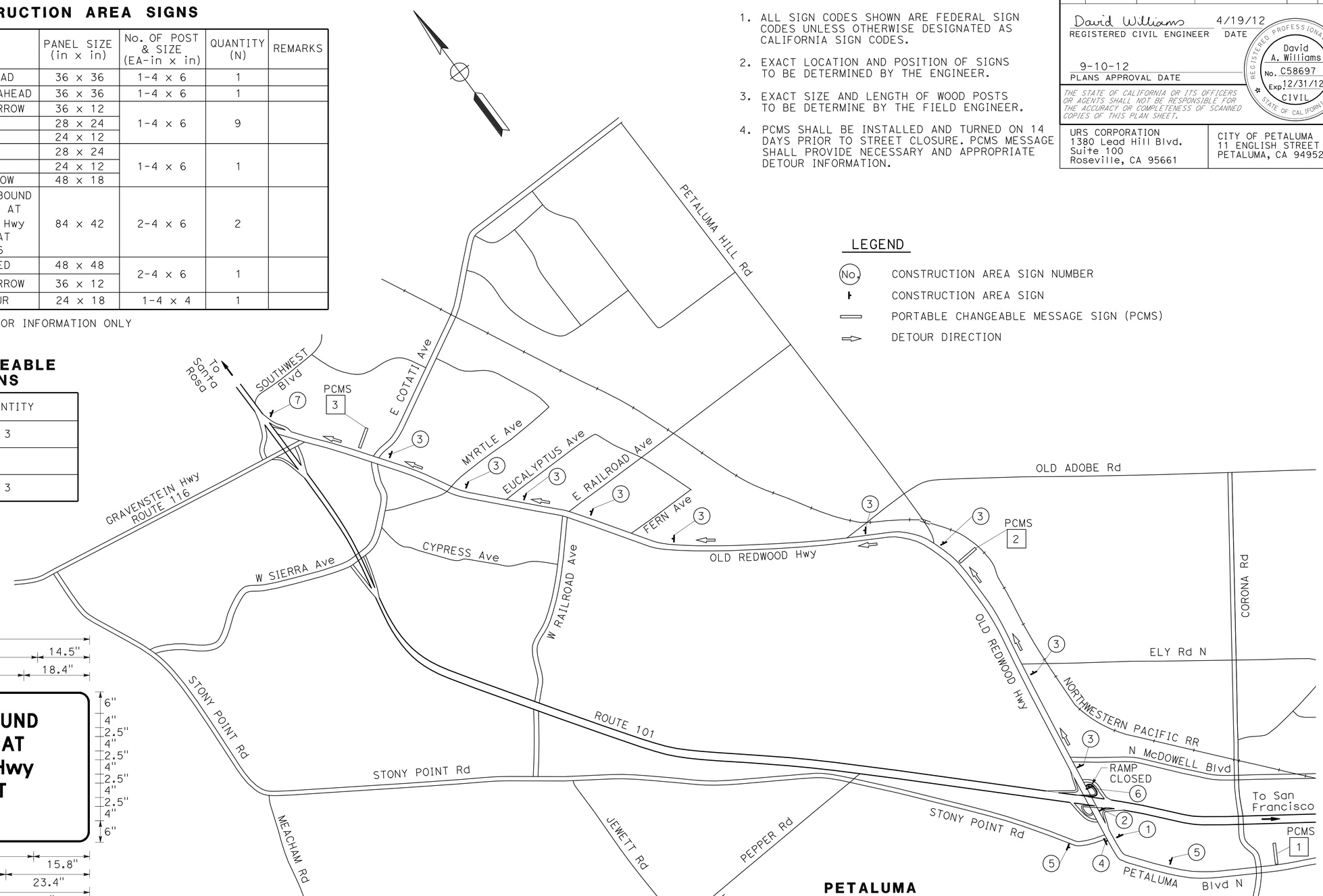
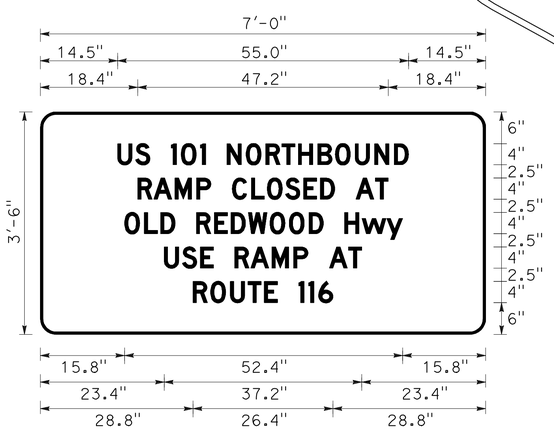
LEGEND

- (No.) CONSTRUCTION AREA SIGN NUMBER
- CONSTRUCTION AREA SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- DETOUR DIRECTION





2.6" RADIUS, 1" BORDER, BLACK ON ORANGE
[US 101 NORTHBOUND] D; [RAMP CLOSED AT] D;
[OLD REDWOOD Hwy] D; [USE RAMP AT] D;
[ROUTE 116] D;

SIGN (5)

NORTHBOUND LOOP ON-RAMP DETOUR

DETOUR PLAN

NO SCALE

DE-3

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY

HN	5/24/12	REVISED BY	DATE REVISED
HN	4/19/12		
HUEY NHAM	DAVID WILLIAMS	CALCULATED-DESIGNED BY	CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR	RAMSEY HISSEN		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	213	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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URS CORPORATION
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Suite 100
Roseville, CA 95661

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

CONSTRUCTION AREA SIGNS

SIGN No.	CODE	MESSAGE	PANEL SIZE (in x in)	No. OF POST & SIZE (EA-in x in)	QUANTITY (N)	REMARKS
1	SC6-3	RAMP CLOSED	48 x 48	1-4 x 6	1	
2	W20-2	DETOUR AHEAD	36 x 36	1-4 x 6	1	
3	SC3(CA)	DETOUR w/ ARROW	36 x 12	1-4 x 6	5	
	D3-1	PETALUMA Blvd N	48 x 18			
4	D3-1	PETALUMA Blvd N	48 x 18	1-4 x 6	2	
	M4-10L	DETOUR ARROW	48 x 18			
5	D3-1	PETALUMA Blvd N	48 x 18	1-4 x 6	1	
	M4-10R	DETOUR ARROW	48 x 18			
6	M4-8a	END DETOUR	24 x 18	1-4 x 4	1	
7	D3-1	PETALUMA Blvd N / OLD REDWOOD Hwy	48 x 18	1-4 x 6	1	
	M4-10L	DETOUR ARROW	48 x 18			
8	SC8(CA)(Mod)	OLD REDWOOD Hwy EXIT RAMP CLOSED USE RAMP AT EAST WASHINGTON St	66 x 42	2-4 x 6	1	

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

PORTABLE CHANGEABLE MESSAGE SIGNS

LOCATION	QUANTITY
1 2 3	3
TOTAL	3

NOTES:

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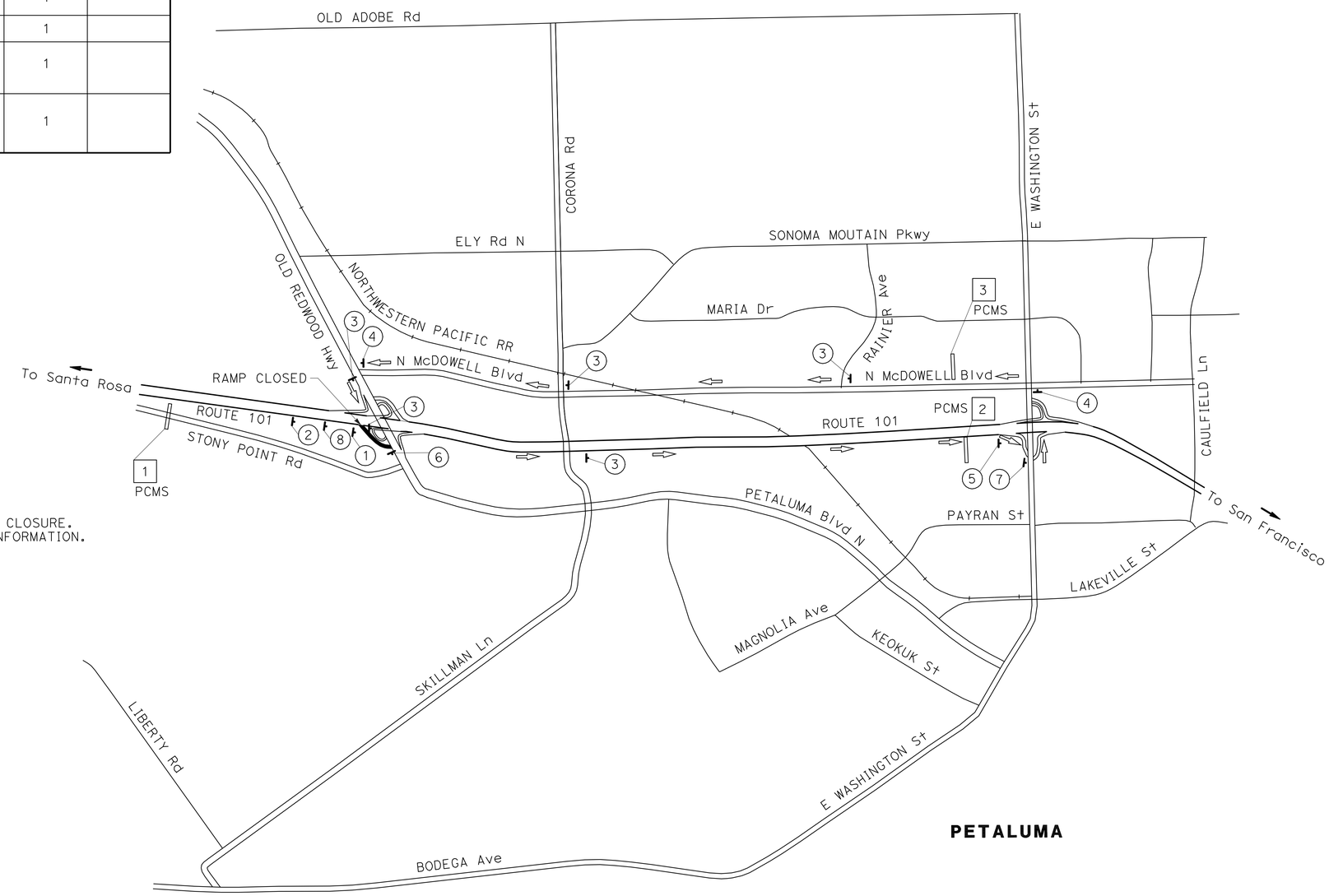
2.6" RADIUS, 1" BORDER, BLACK ON ORANGE
[OLD REDWOOD Hwy] D; [EXIT RAMP] D;
[CLOSED] D; [USE RAMP AT] D;
[EAST WASHINGTON St] D;

SIGN (8)

LEGEND

(No.) CONSTRUCTION AREA SIGN NUMBER
CONSTRUCTION AREA SIGN
PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
DETOUR DIRECTION



SOUTHBOUND OFF-RAMP DETOUR

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY

DETOUR PLAN

NO SCALE

DE-4

REVISED BY	DATE REVISED
HN	5/24/12
HN	4/19/12

CALCULATED-DESIGNED BY: HUEY NHAM
CHECKED BY: DAVID WILLIAMS
CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	214	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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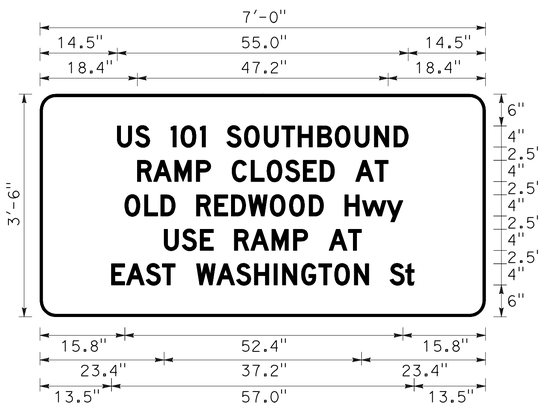
Suite 100
Roseville, CA 95661

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

CONSTRUCTION AREA SIGNS

SIGN No.	CODE	MESSAGE	PANEL SIZE (in x in)	No. OF POST & SIZE (EA-in x in)	QUANTITY (N)	REMARKS
1	W20-3	RAMP CLOSED AHEAD	36 x 36	1-4 x 6	1	
2	SC3(CA)	DETOUR w/ ARROW	36 x 12	1-4 x 6	5	
	G26-2(CA)	US 101	28 x 24			
	M3-1	SOUTH	24 x 12			
3	G26-2(CA)	US 101	28 x 24	1-4 x 6	2	
	M3-1	SOUTH	24 x 12			
	M4-10L	DETOUR ARROW	48 x 18			
4	G26-2(CA)	US 101	28 x 24	1-4 x 6	2	
	M3-1	SOUTH	24 x 12			
	M4-10R	DETOUR ARROW	48 x 18			
5	SC7(CA)(Mod)	US 101 SOUTHBOUND RAMP CLOSED AT OLD REDWOOD Hwy USE RAMP AT EAST WASHINGTON	84 x 42	2-4 x 6	2	
6	SC6-3	RAMP CLOSED	48 x 48	2-4 x 6	1	
	SC3(CA)	DETOUR w/ ARROW	36 x 12			
7	M4-8a	END DETOUR	24 x 18	1-4 x 4	1	

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

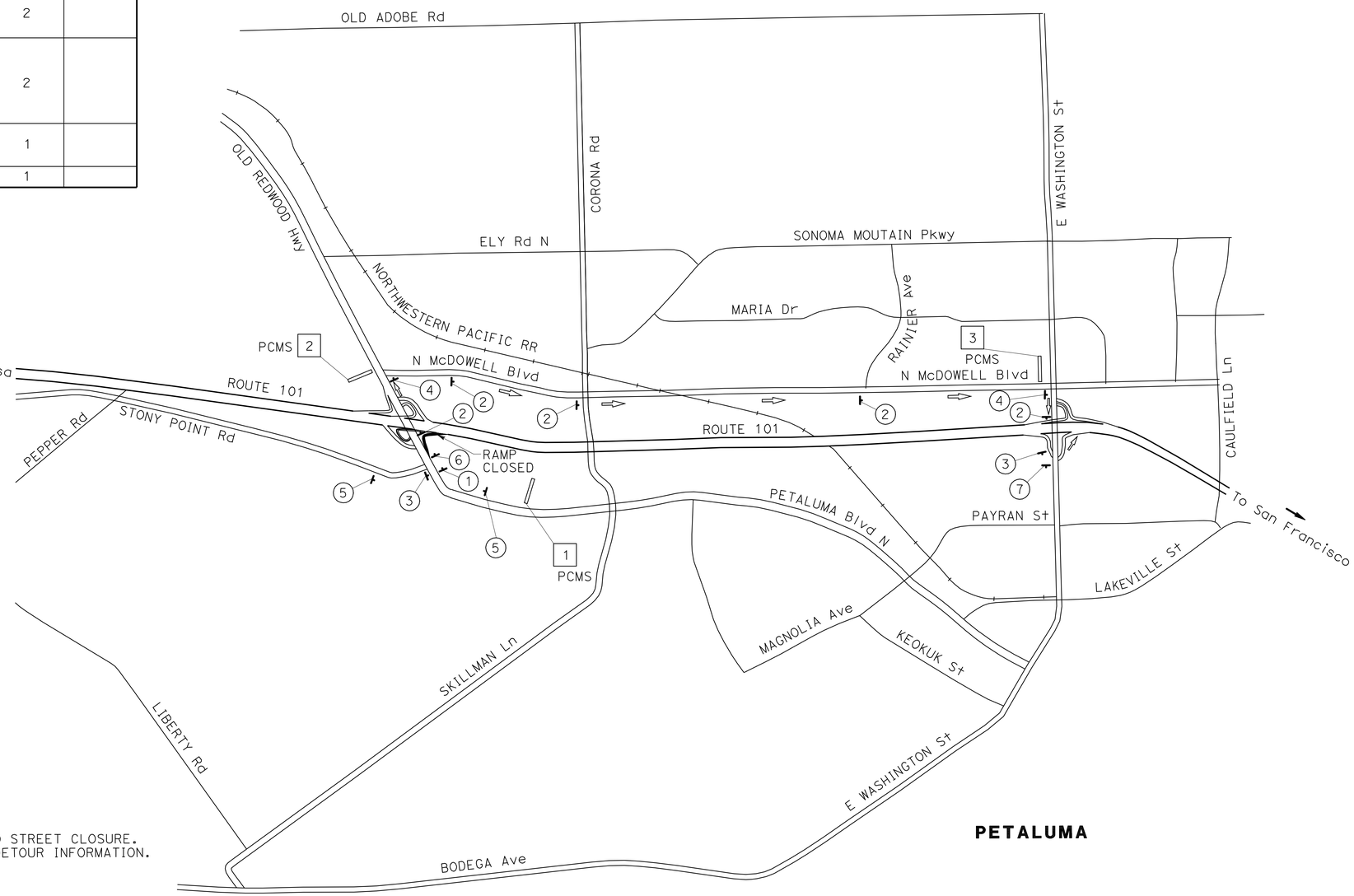


2.6" RADIUS, 1" BORDER, BLACK ON ORANGE
[US 101 SOUTHBOUND] D; [RAMP CLOSED AT] D;
[OLD REDWOOD Hwy] D; [USE RAMP AT] D;
[EAST WASHINGTON St] D;

SIGN (5)

PORTABLE CHANGEABLE MESSAGE SIGNS

LOCATION	QUANTITY
1 2 3	3
TOTAL	3



SOUTHBOUND ON-RAMP DETOUR

NOTES:

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LEGEND

- (No.) CONSTRUCTION AREA SIGN NUMBER
- CONSTRUCTION AREA SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- DETOUR DIRECTION

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY

DETOUR PLAN

NO SCALE

DE-5

HN	5/24/12		
HN	4/19/12		
REVISED BY	DATE REVISED		
HUEY NHAM	DAVID WILLIAMS		
CALCULATED- DESIGNED BY	CHECKED BY		
CONSULTANT FUNCTIONAL SUPERVISOR	RAMSEY HISSEN		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	215	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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Suite 100
Roseville, CA 95661

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

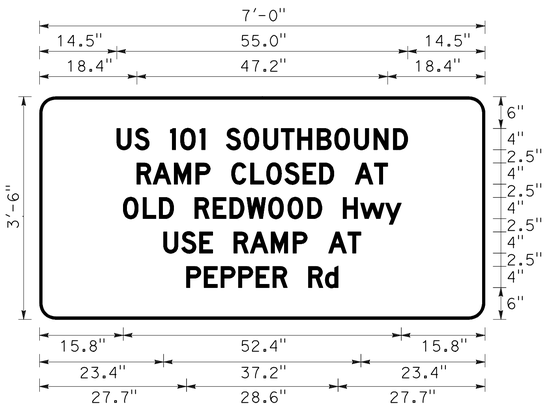
CONSTRUCTION AREA SIGNS

SIGN No.	CODE	MESSAGE	PANEL SIZE (in x in)	No. OF POST & SIZE (EA-in x in)	QUANTITY (N)	REMARKS
1	W20-3	RAMP CLOSED AHEAD	36 x 36	1-4 x 6	1	
2	SC3(CA)	DETOUR w/ ARROW	36 x 12	1-4 x 6	2	
	G26-2(CA)	US 101	28 x 24			
	M3-1	SOUTH	24 x 12			
3	G26-2(CA)	US 101	28 x 24	1-4 x 6	2	
	M3-1	SOUTH	24 x 12			
	M4-10R	DETOUR ARROW	48 x 18			
4	SC7(CA)(Mod)	US 101 SOUTHBOUND RAMP CLOSED AT OLD REDWOOD Hwy USE RAMP AT PEPPER ROAD	84 x 42	2-4 x 6	1	
5	SC6-3	RAMP CLOSED	48 x 48	2-4 x 6	1	
	SC3(CA)	DETOUR w/ ARROW	36 x 12			
6	M4-8a	END DETOUR	24 x 18	1-4 x 4	1	

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

PORTABLE CHANGEABLE MESSAGE SIGNS

LOCATION	QUANTITY
1 2 3	3
TOTAL	3



2.6" RADIUS, 1" BORDER, BLACK ON ORANGE
[US 101 SOUTHBOUND] D; [RAMP CLOSED AT] D;
[OLD REDWOOD Hwy] D; [USE RAMP AT] D;
[PEPPER Rd] D;

SIGN (5)

NOTES:

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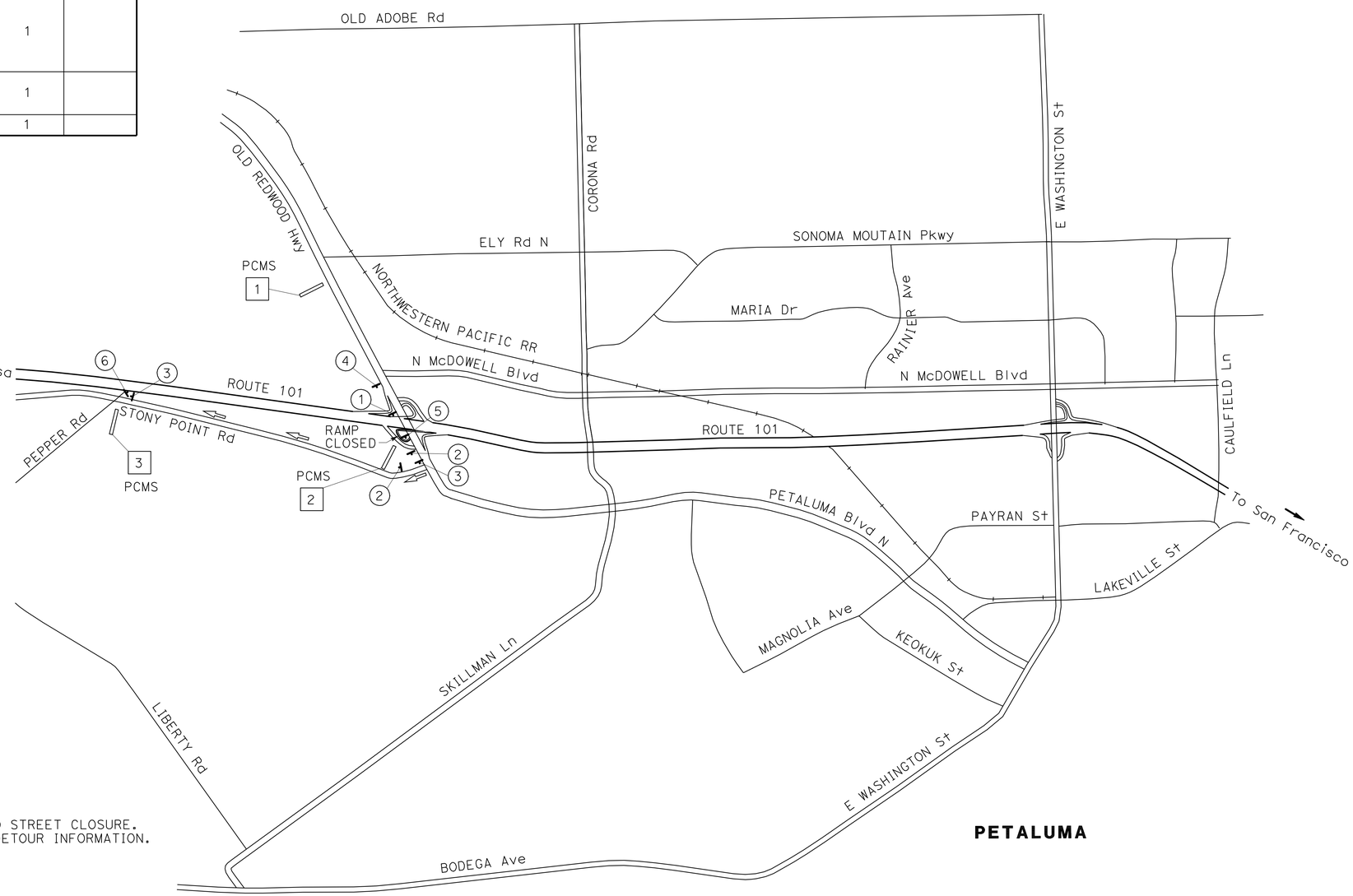
LEGEND

- (No.) CONSTRUCTION AREA SIGN NUMBER
- CONSTRUCTION AREA SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- DETOUR DIRECTION



SOUTHBOUND LOOP ON-RAMP DETOUR

DETOUR PLAN

NO SCALE

DE-6

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY

HN	5/24/12	
HN	4/19/12	
REVISED BY	DATE REVISED	
HUEY NHAM	DAVID WILLIAMS	
CALCULATED-DESIGNED BY	CHECKED BY	
CONSULTANT FUNCTIONAL SUPERVISOR	RAMSEY HISSEN	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	216	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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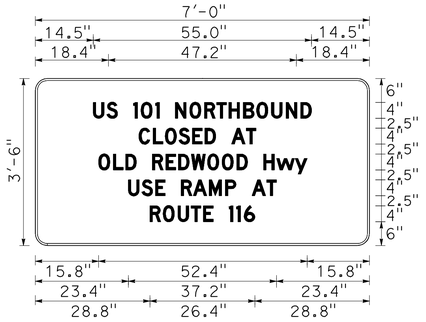
PETALUMA, CA 94952



2.6" RADIUS, 1" BORDER, BLACK ON ORANGE
[US 101 NORTHBOUND] D; [CLOSED AT] D;
[OLD REDWOOD Hwy] D; [USE RAMP AT] D;
[ROUTE 116] D;

SIGN 10

CONSTRUCTION AREA SIGNS

SIGN No.	CODE	MESSAGE	PANEL SIZE (in x in)	No. OF POST & SIZE (EA-in x in)	QUANTITY (N)	REMARKS
1	W20-2	DETOUR AHEAD	36 x 36	1-4 x 4	1	
2	G26-2(CA)	US 101	28 x 24	2-4 x 6	1	
	M3-1	NORTH	24 x 12			
	W20-3	RAMP CLOSED AHEAD	48 X 48			
3	SC3(CA)	DETOUR w/ ARROW	36 x 12	1-4 x 6	9	
	G26-2(CA)	US 101	28 x 24			
	M3-1	NORTH	24 x 12			
4	G26-2(CA)	US 101	28 x 24	1-4 x 6	1	
	M3-1	NORTH	24 x 12			
	M4-10L	DETOUR ARROW	48 x 18			
5	G26-2(CA)	US 101	28 x 24	1-4 x 6	2	
	M3-1	NORTH	24 x 12			
	M4-10R	DETOUR ARROW	48 x 18			
6	W20-3	Fwy CLOSED AHEAD	48 X 48	1-4 x 6	1	
7	SC6-3	RAMP CLOSED	48 x 48	2-4 x 6	1	
	SC3(CA)	DETOUR w/ ARROW	36 x 12			
8	M4-8a	END DETOUR	24 x 18	1-4 x 4	1	
9	R11-2	ROAD CLOSED	48 X 30	MOUNT ON BARRICADE	1	
10	SC7(CA)(Mod)	US 101 NORTHBOUND CLOSED AT OLD REDWOOD Hwy USE RAMP AT ROUTE 116	84 x 42	2-4 x 6	1	

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

NOTES:

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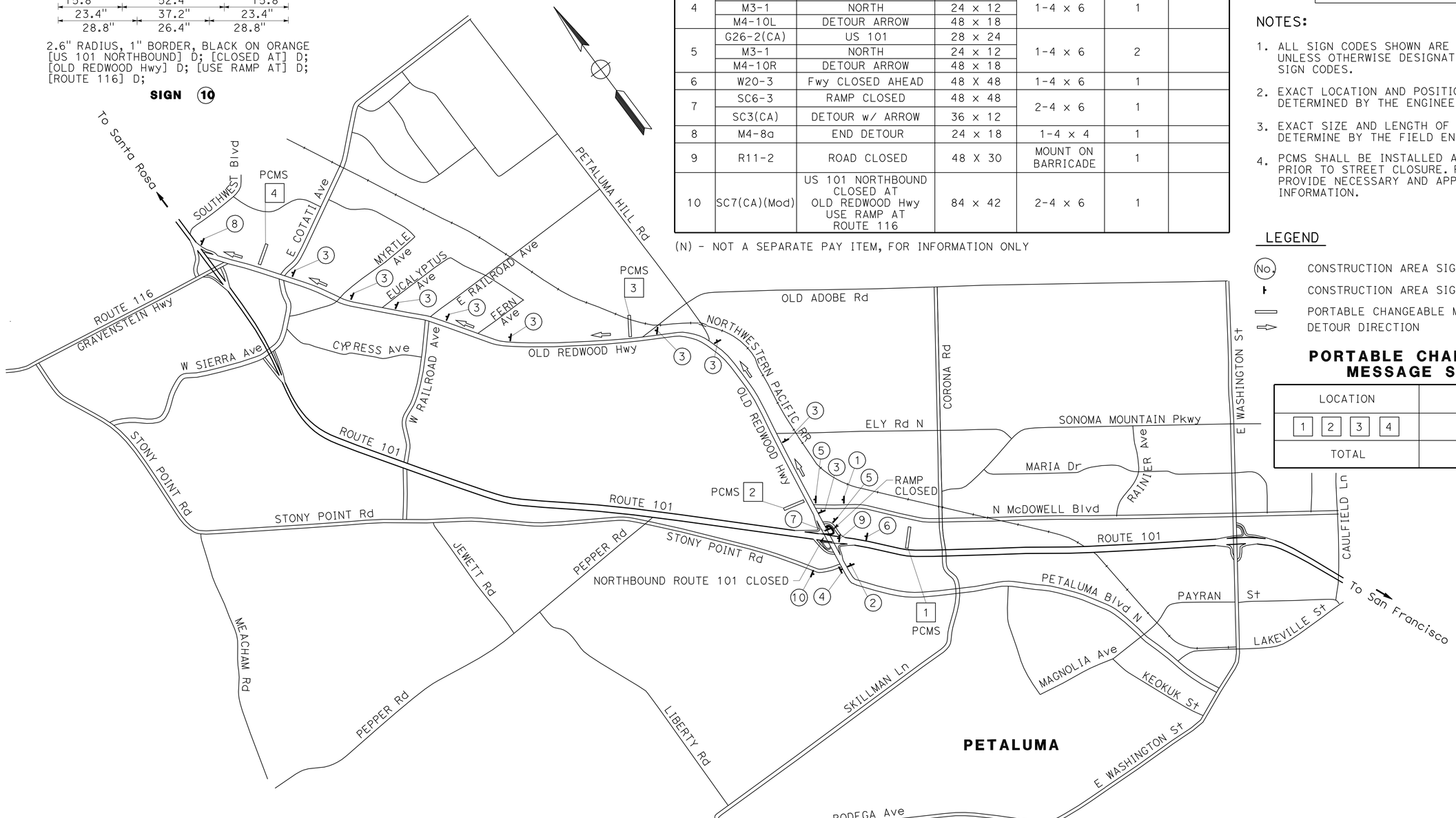
3. EXACT SIZE AND LENGTH OF WOOD POSTS TO BE DETERMINE BY THE FIELD ENGINEER.
4. PCMS SHALL BE INSTALLED AND TURNED ON 14 DAYS PRIOR TO STREET CLOSURE. PCMS MESSAGE SHALL PROVIDE NECESSARY AND APPROPRIATE DETOUR INFORMATION.

LEGEND

- (No.) CONSTRUCTION AREA SIGN NUMBER
- CONSTRUCTION AREA SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- DETOUR DIRECTION

PORTABLE CHANGEABLE MESSAGE SIGNS

LOCATION	QUANTITY
1 2 3 4	4
TOTAL	4



NORTHBOUND ROUTE 101 DETOUR

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY

DETOUR PLAN

NO SCALE

DE-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: DAVID WILLIAMS
CHECKED BY: HUEY NHAM
REVISED BY: HN — DATE REVISED: 4/19/12
REVISED BY: HN — DATE REVISED: 5/24/12

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 07:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	217	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

URS CORPORATION
1380 Lead Hill Blvd.
Suite 100
Roseville, CA 95661

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

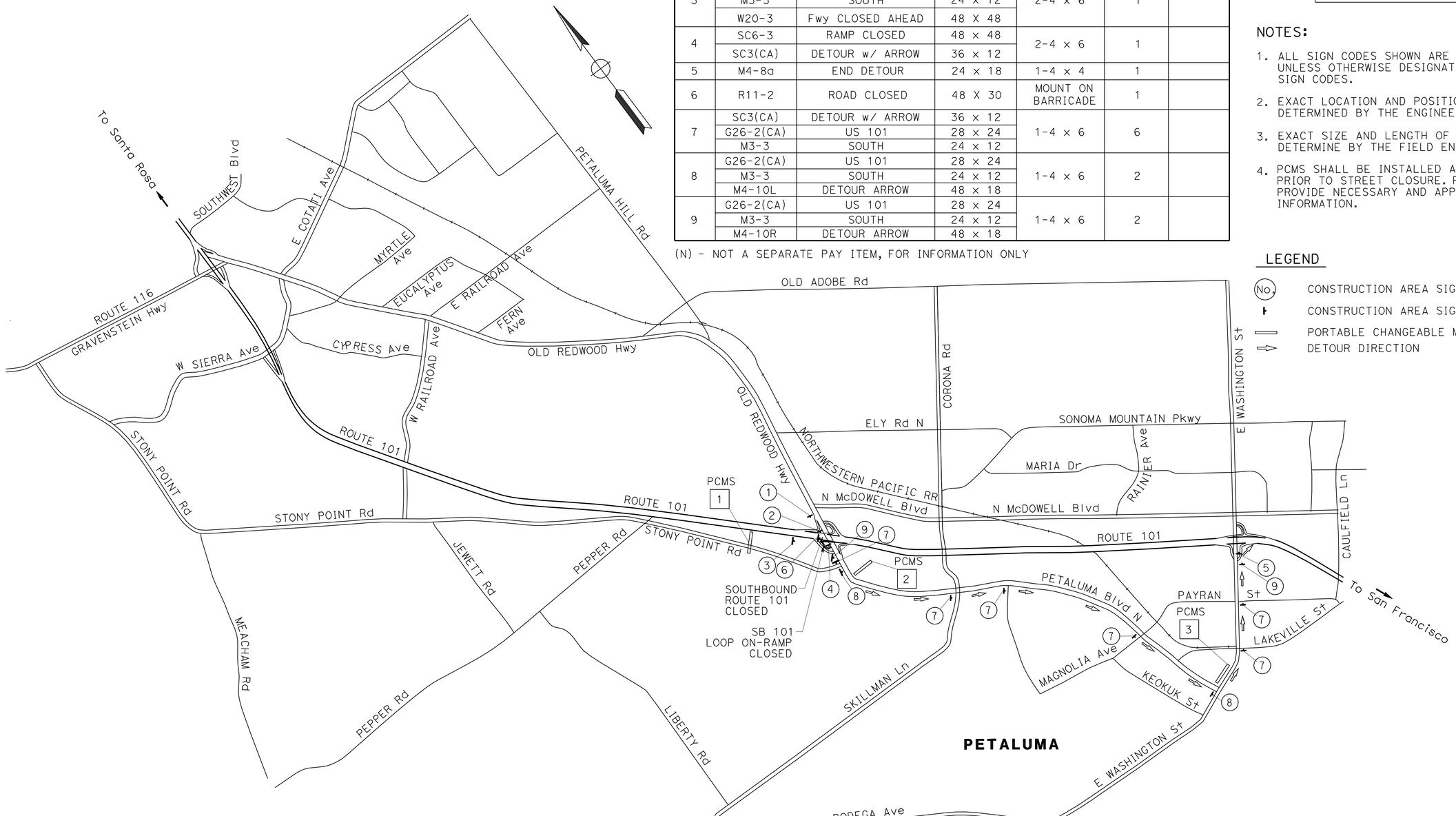
PORTABLE CHANGEABLE MESSAGE SIGNS

LOCATION	QUANTITY
1 2 3	3
TOTAL	3

CONSTRUCTION AREA SIGNS

SIGN No.	CODE	MESSAGE	PANEL SIZE (in x in)	No. OF POST & SIZE (EA-in x in)	QUANTITY (N)	REMARKS
1	G26-2(CA)	US 101	28 x 24	1-4 x 6	1	
	M3-3	SOUTH	24 x 12			
	W20-2	DETOUR AHEAD	36 x 36			
2	G26-2(CA)	US 101	28 x 24	2-4 x 6	1	
	M3-3	SOUTH	24 x 12			
	W20-3	RAMP CLOSED AHEAD	48 X 48			
3	G26-2(CA)	US 101	28 x 24	2-4 x 6	1	
	M3-3	SOUTH	24 x 12			
	W20-3	Fwy CLOSED AHEAD	48 X 48			
4	SC6-3	RAMP CLOSED	48 x 48	2-4 x 6	1	
	SC3(CA)	DETOUR w/ ARROW	36 x 12			
5	M4-8a	END DETOUR	24 x 18	1-4 x 4	1	
6	R11-2	ROAD CLOSED	48 X 30	MOUNT ON BARRICADE	1	
7	SC3(CA)	DETOUR w/ ARROW	36 x 12	1-4 x 6	6	
	G26-2(CA)	US 101	28 x 24			
	M3-3	SOUTH	24 x 12			
8	G26-2(CA)	US 101	28 x 24	1-4 x 6	2	
	M3-3	SOUTH	24 x 12			
	M4-10L	DETOUR ARROW	48 x 18			
9	G26-2(CA)	US 101	28 x 24	1-4 x 6	2	
	M3-3	SOUTH	24 x 12			
	M4-10R	DETOUR ARROW	48 x 18			

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY



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LEGEND

- (No.) CONSTRUCTION AREA SIGN NUMBER
- CONSTRUCTION AREA SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- DETOUR DIRECTION

SOUTHBOUND ROUTE 101 DETOUR

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY

DETOUR PLAN

NO SCALE

DE-8

HN	5/24/12		
HN	4/19/12		
REVISED BY	DATE REVISED		
HUEY NHAM	DAVID WILLIAMS	CALCULATED-DESIGNED BY	CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR	RAMSEY HISSEN		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	218	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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Suite 100
Roseville, CA 95661

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

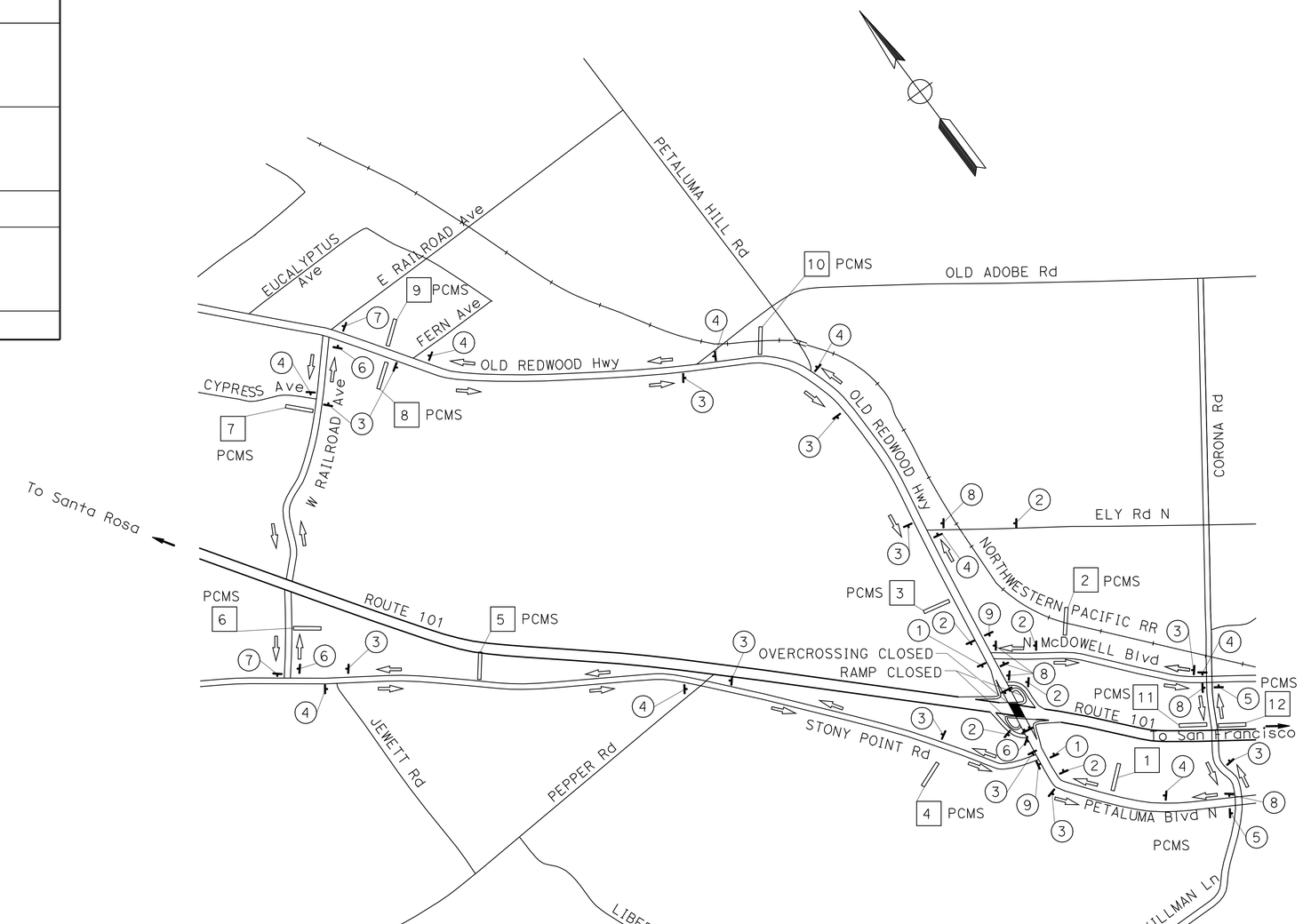
CONSTRUCTION AREA SIGNS

SIGN No.	CODE	MESSAGE	PANEL SIZE (in x in)	No. OF POST & SIZE (EA-in x in)	QUANTITY (N)	REMARKS
1	R11-2	BRIDGE CLOSED	48 x 30	2-4 x 6	2	
	M4-10L	DETOUR ARROW	48 x 18			
2	W20-2	DETOUR AHEAD	36 x 36	1-4 x 6	6	
3	SC3(CA)	DETOUR w/ ARROW	36 x 12	1-4 x 6	12	
	D3-1	OLD REDWOOD Hwy	48 x 18			
	M3-1	NORTH	24 x 12			
	G26-2(CA)	US 101	28 x 24			
4	SC3(CA)	DETOUR w/ ARROW	36 x 12	1-4 x 6	9	
	D3-1	PETALUMA Blvd N	48 x 18			
	M3-1	SOUTH	24 x 12			
	G26-2(CA)	US 101	28 x 24			
5	D3-1	OLD REDWOOD Hwy	48 x 18	1-4 x 6	2	
	M4-10L	DETOUR ARROW	48 x 18			
	M3-1	NORTH	24 x 12			
	G26-2(CA)	US 101	28 x 24			
6	D3-1	OLD REDWOOD Hwy	48 x 18	1-4 x 6	3	
	M4-10R	DETOUR ARROW	48 x 18			
	M3-1	NORTH	24 x 12			
	G26-2(CA)	US 101	28 x 24			
7	D3-1	PETALUMA Blvd N	48 x 18	1-4 x 6	2	
	M4-10L	DETOUR ARROW	48 x 18			
8	D3-1	PETALUMA Blvd N	48 x 18	1-4 x 6	6	
	M4-10R	DETOUR ARROW	48 x 18			
	M3-1	SOUTH	24 x 12			
	G26-2(CA)	US 101	28 x 24			
9	M4-8a	END DETOUR	24 x 18	1-4 x 4	2	

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

PORTABLE CHANGEABLE MESSAGE SIGNS

LOCATION	QUANTITY
1 2 3	3
4 5 6	3
7 8 9	3
10 11 12	3
TOTAL	12



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LEGEND

- (No.) CONSTRUCTION AREA SIGN NUMBER
- CONSTRUCTION AREA SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- BARRICADE
- DETOUR DIRECTION

OLD REDWOOD Hwy OVERCROSSING DETOUR

DETOUR PLAN

NO SCALE

DE-9

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY

HN	5/24/12		
HN	4/19/12		
REVISED BY	DATE REVISED		
HUEY NHAM	DAVID WILLIAMS		
CALCULATED-DESIGNED BY	CHECKED BY		
CONSULTANT FUNCTIONAL SUPERVISOR	RAMSEY HISSEN		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	219	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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URS CORPORATION
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Suite 100
Roseville, CA 95661

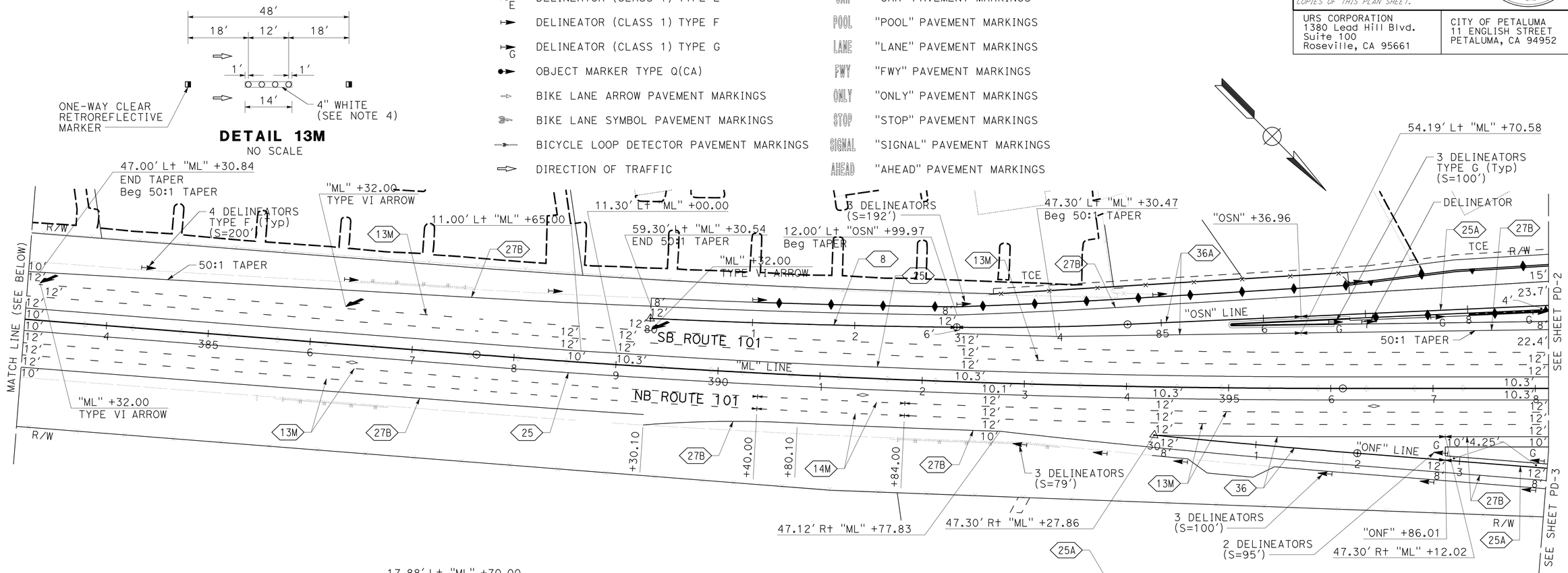
CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. STATION AND OFFSET CALLOUTS ARE APPROXIMATE, EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.
3. THE TOP AND FACE OF THE CURB AT THE ISLAND NOSE SHALL BE PAINTED WHITE.
4. INSTALL 4" WHITE AFTER INSTALLING PAVEMENT MARKERS.

LEGEND

- No. — PAVEMENT DELINEATION NUMBER
- LL — PAVEMENT MARKING - LIMIT LINE
- CW — PAVEMENT MARKING - CROSSWALK
- CHANGE OF PAVEMENT DELINEATION
- E — DELINEATOR (CLASS 1) TYPE E
- DELINEATOR (CLASS 1) TYPE F
- G — DELINEATOR (CLASS 1) TYPE G
- OBJECT MARKER TYPE Q(CA)
- BIKE LANE ARROW PAVEMENT MARKINGS
- BIKE LANE SYMBOL PAVEMENT MARKINGS
- BICYCLE LOOP DETECTOR PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- TYPE I (24') ARROW PAVEMENT MARKINGS
- TYPE I (10') ARRPW PAVEMENT MARKINGS
- TYPE III ARROW PAVEMENT MARKINGS
- TYPE IV ARROW PAVEMENT MARKINGS
- TYPE VI ARROW PAVEMENT MARKINGS
- CAR — "CAR" PAVEMENT MARKINGS
- POOL — "POOL" PAVEMENT MARKINGS
- LANE — "LANE" PAVEMENT MARKINGS
- FWY — "FWY" PAVEMENT MARKINGS
- ONLY — "ONLY" PAVEMENT MARKINGS
- STOP — "STOP" PAVEMENT MARKINGS
- SIGNAL — "SIGNAL" PAVEMENT MARKINGS
- AHEAD — "AHEAD" PAVEMENT MARKINGS



APPROVED FOR PAVEMENT DELINEATION WORK ONLY

PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-1

HN	5/24/12		
HN	4/19/12		
REVISED BY	DATE REVISED		
HUEY NHAM	DAVID WILLIAMS		
CALCULATED-DESIGNED BY	CHECKED BY		
CONSULTANT FUNCTIONAL SUPERVISOR	RAMSEY HISSEN		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	220	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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Roseville, CA 95661

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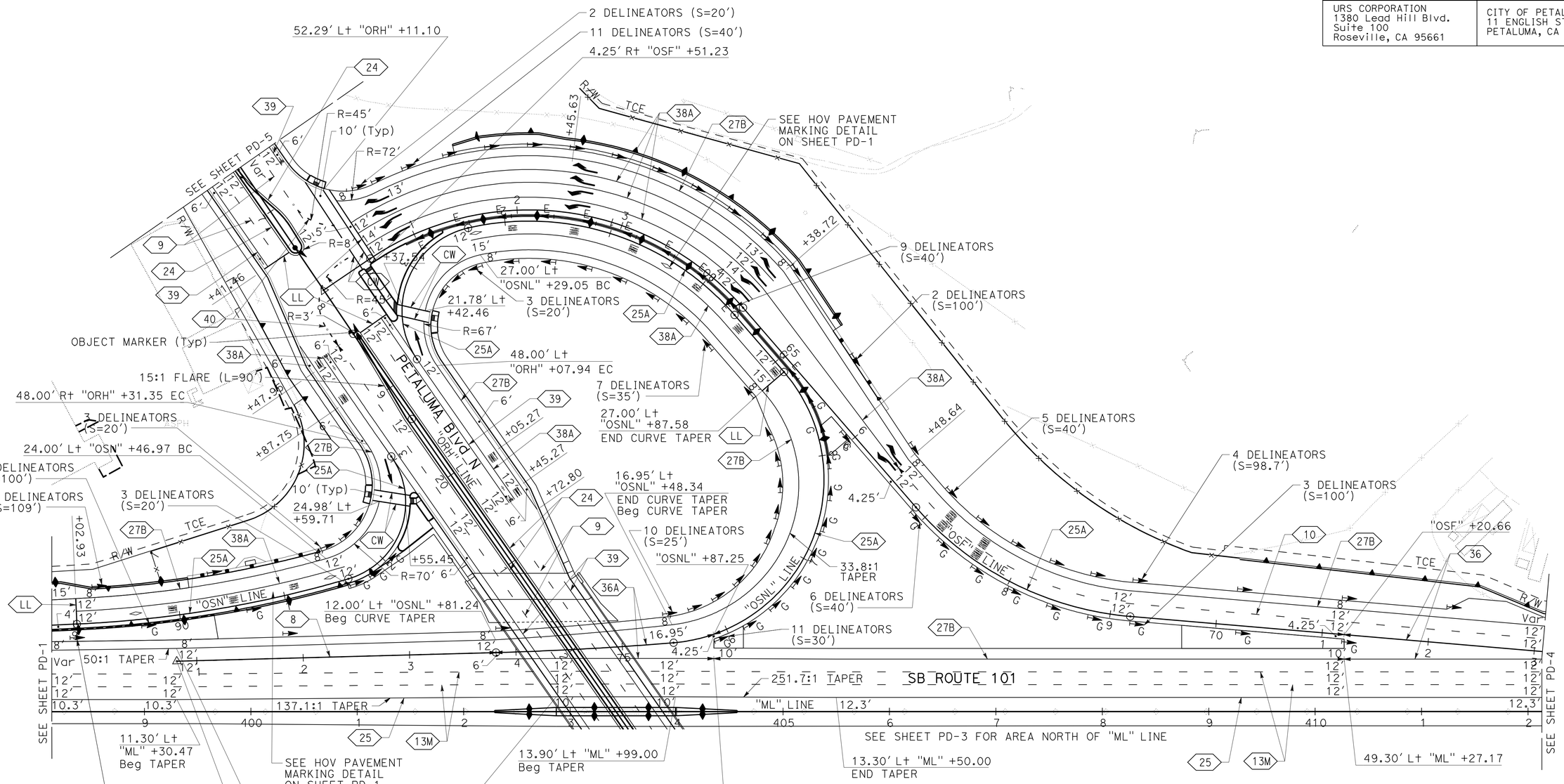
11 ENGLISH STREET
PETALUMA, CA 94952



FOR NOTES AND LEGEND, SEE SHEET PD-1

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-2

		HN	5/24/12
		HN	4/19/12
		REVISED BY	DATE REVISED
		HUEY NHAM	
		DAVID WILLIAMS	
		CALCULATED-DESIGNED BY	
		CHECKED BY	
		CONSULTANT FUNCTIONAL SUPERVISOR	
		RAMSEY HISSEN	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	221	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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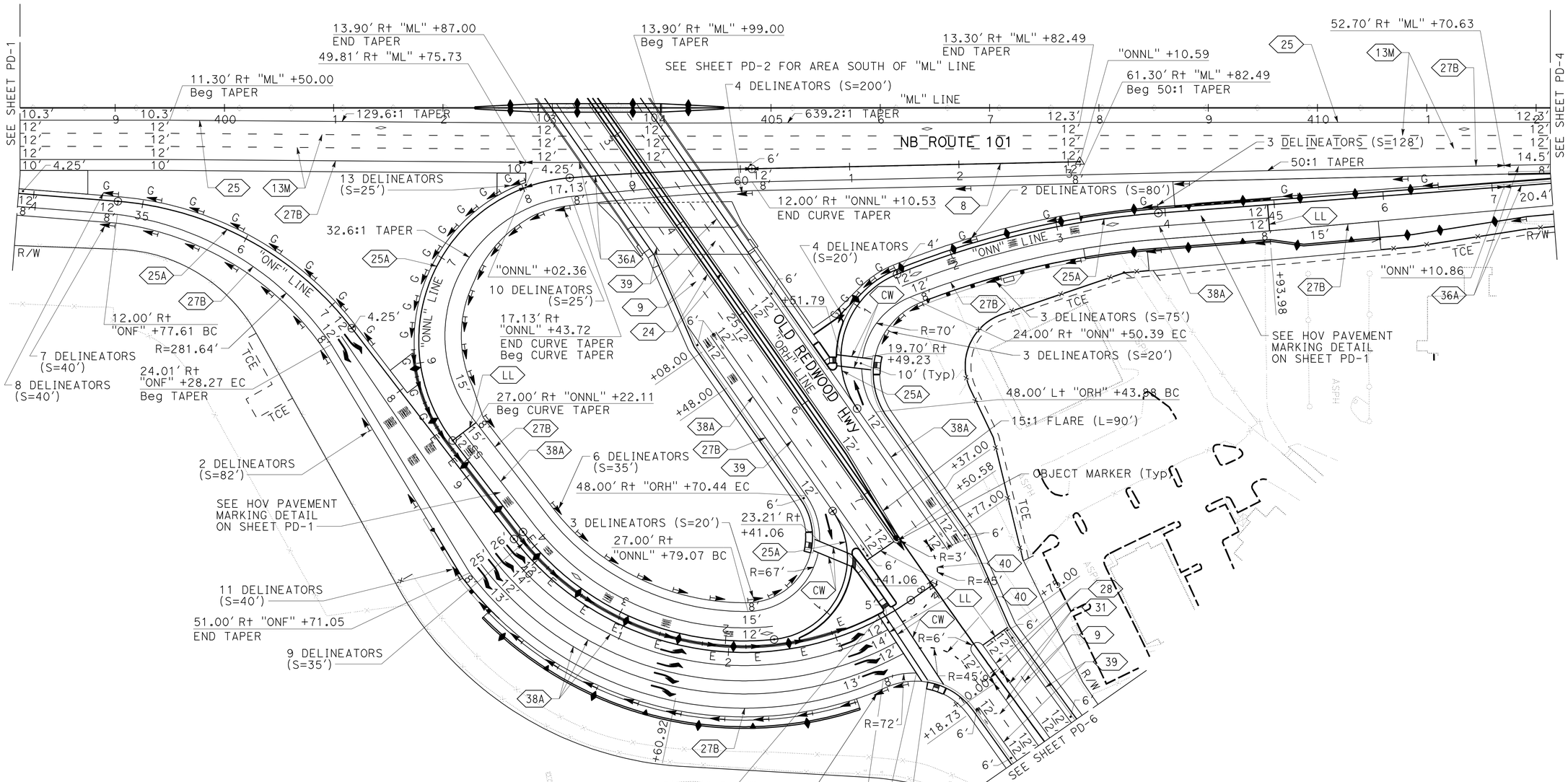
PETALUMA, CA 94952



FOR NOTES AND LEGEND, SEE SHEET PD-1

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: DAVID WILLIAMS
CHECKED BY: HUEY NHAM
REVISED BY: HN HN
DATE REVISED: 4/19/12 5/24/12

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 07:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	222	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
David A. Williams
No. C58697
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

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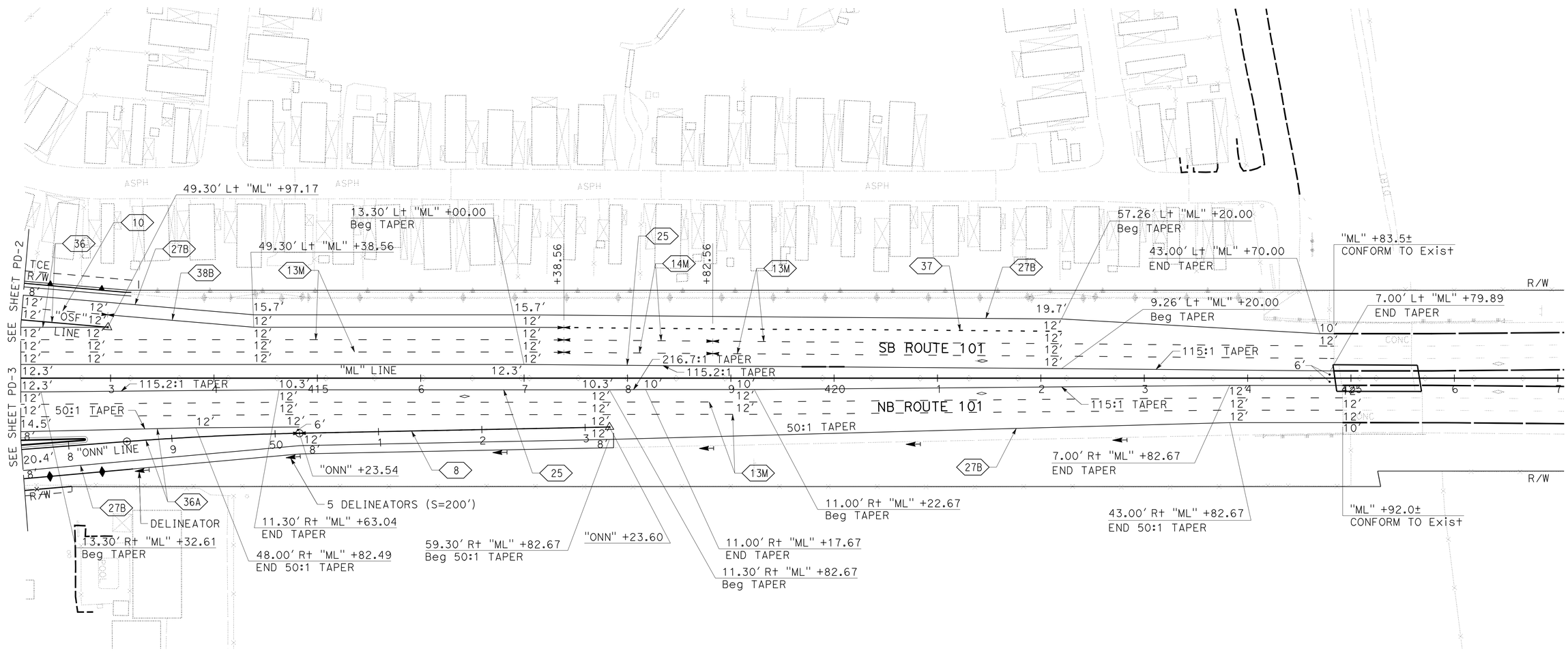
PETALUMA, CA 94952



FOR NOTES AND LEGEND, SEE SHEET PD-1

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-4

HN	5/24/12		
HN	4/19/12		
REVISED BY	DATE REVISED		
HUEY NHAM	DAVID WILLIAMS	CALCULATED-DESIGNED BY	CHECKED BY
RAMSEY HISSEN		CONSULTANT FUNCTIONAL SUPERVISOR	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	223	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
David A. Williams
No. C58697
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

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Roseville, CA 95661

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

FOR NOTES AND LEGEND, SEE SHEET PD-1

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-5

	HN	5/24/12	
	HN	4/19/12	
REVISED BY	DATE REVISED		
HUEY NHAM	DAVID WILLIAMS		
CALCULATED-DESIGNED BY	CHECKED BY		
CONSULTANT FUNCTIONAL SUPERVISOR	RAMSEY HISSEN		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	224	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
David A. Williams
No. C58697
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

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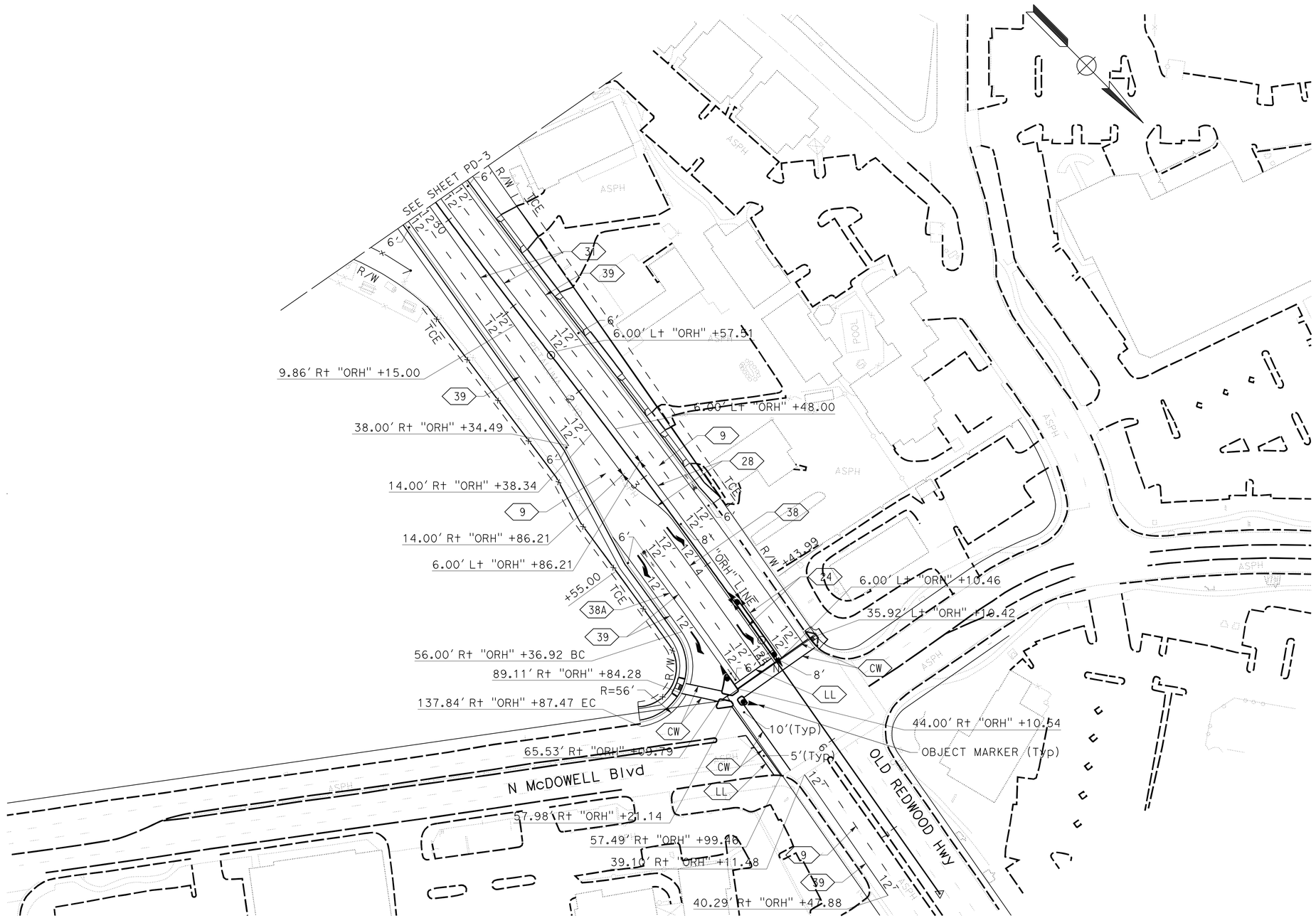
PETALUMA, CA 94952



FOR NOTES AND LEGEND, SEE SHEET PD-1

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-6

HUEY NHAM	HN
DAVID WILLIAMS	5/24/12
REVISED BY	HN
DATE REVISED	4/19/12
CALCULATED-DESIGNED BY	
CHECKED BY	
CONSULTANT FUNCTIONAL SUPERVISOR	
RAMSEY HISSEN	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 07:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	225	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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Suite 100
Roseville, CA 95661

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

PAVEMENT DELINEATION QUANTITIES

SHEET	STATION FROM	STATION TO	DETAIL No.	THERMOPLASTIC TRAFFIC STRIPE (LF) 4" WHITE	4" YELLOW	6" WHITE	8" WHITE	8" (BROKEN 12-3) WHITE	4" (BROKEN 6-1) WHITE	4" (BROKEN 36-12) WHITE	4" (BROKEN 17-7) WHITE	PAVEMENT MARKER (NON-REFLECTIVE) (EA) TYPE A	TYPE AY	PAVEMENT MARKER (RETROREFLECTIVE) (EA) TYPE C	TYPE D	TYPE G	TYPE H	DESCRIPTION
PD-1	0.00′ Lt "OSN" 80+00.00	0.00′ Lt "OSN" 82+99.97	8								300							4" WHITE LANELINE
PD-3	0.00′ Rt "ONNL" 60+10.53	0.00′ Rt "ONNL" 63+10.59	8								300							4" WHITE LANELINE
PD-4	0.00′ Rt "ONN" 50+23.53	0.00′ Rt "ONN" 53+23.60	8								300							4" WHITE LANELINE
PD-2	0.00′ Lt "OSNL" 70+81.24	0.00′ Lt "OSNL" 73+81.24	8								300							4" WHITE LANELINE
PD-5	15.00′ Rt "SP" 10+67.57	11.00′ Rt "SP" 15+59.60	9								495					12		4" WHITE LANELINE
PD-2,5	24.00′ Rt "ORH" 11+78.02	19.10′ Rt "ORH" 17+41.46	9								563					13		4" WHITE LANELINE
PD-2,5	18.00′ Lt "ORH" 11+59.39	20.87′ Lt "ORH" 17+41.46	9								553					13		4" WHITE LANELINE
PD-2,3	18.00′ Rt "ORH" 18+50.93	18.00′ Rt "ORH" 27+50.58	9								911					20		4" WHITE LANELINE
PD-2,3	18.00′ Lt "ORH" 18+52.42	18.00′ Lt "ORH" 27+71.77	9								930					21		4" WHITE LANELINE
PD-3,6	18.00′ Rt "ORH" 28+75.00	26.00′ Rt "ORH" 35+05.51	9								630					15		4" WHITE LANELINE
PD-3,6	18.00′ Lt "ORH" 28+75.00	18.00′ Lt "ORH" 35+10.45	9								636					15		4" WHITE LANELINE
PD-6	27.10′ Rt "ORH" 36+11.78	28.89′ Rt "ORH" 37+47.98	9								136					4		4" WHITE LANELINE
PD-2,4	12.00′ Lt "OSF" 66+48.64	12.00′ Lt "OSF" 73+90.62	10													17		LANELINE MARKERS
PD-1,2,4	30.44′ Lt "ML" 376+40.00	24.97′ Lt "ML" 417+38.56	13M							4097		344				87		4" WHITE LANELINE
PD-1,2,4	35.00′ Lt "ML" 383+30.84	36.97′ Lt "ML" 417+38.56	13M							3405		284				72		4" WHITE LANELINE
PD-1	23.00′ Rt "ML" 381+02.22	23.00′ Rt "ML" 390+40.00	13M							938		80				21		4" WHITE LANELINE
PD-1	32.20′ Rt "ML" 376+40.00	35.00′ Rt "ML" 390+40.00	13M							1401		120				31		4" WHITE LANELINE
PD-1,3,4	23.00′ Rt "ML" 391+84.00	19.00′ Rt "ML" 424+92.00	13M							3309		276				70		4" WHITE LANELINE
PD-1,3,4	35.00′ Rt "ML" 391+84.00	31.00′ Rt "ML" 424+92.00	13M							3309		276				70		4" WHITE LANELINE
PD-1,3,4	35.74′ Lt "ML" 418+82.56	31.00′ Lt "ML" 424+83.50	13M							601		52				14		4" WHITE LANELINE
PD-1,3,4	35.74′ Lt "ML" 418+82.56	19.00′ Lt "ML" 424+83.50	13M							901		76				20		4" WHITE LANELINE
PD-1	23.00′ Rt "ML" 390+40.00	23.00′ Rt "ML" 391+84.00	14M							144		12		4				4" WHITE LANELINE
PD-1	35.00′ Rt "ML" 390+40.00	35.00′ Rt "ML" 391+84.00	14M							144		12		4				4" WHITE LANELINE
PD-4	36.97′ Lt "ML" 417+38.56	35.74′ Lt "ML" 418+82.56	14M							144		12		4				4" WHITE LANELINE
PD-4	24.97′ Lt "ML" 417+38.56	23.74′ Lt "ML" 418+82.56	14M							144		12		4				4" WHITE LANELINE
PD-5	4.00′ Rt "SP" 10+71.06	4.00′ Rt "SP" 13+09.95	21		478													4" YELLOW CENTERLINE
PD-5	12.00′ Rt "ORH" 11+77.71	1080′ Rt "ORH" 14+08.51	24		425													CENTERLINE
PD-2,5	10.26′ Rt "ORH" 14+56.82	7.1′ Rt "ORH" 17+41.46	24		422													4" YELLOW EDGELINE
PD-2,3	6.00′ Lt "ORH" 18+41.42	0.00′ Lt "ORH" 27+50.67	24		1838													4" YELLOW EDGELINE
PD-6	2.00′ Lt & 6.00′ Rt "ORH" 34+43.99	2.00′ Lt & 6.00′ Rt "ORH" 35+10.46	24		133													4" YELLOW EDGELINE
PD-1,2,4	18.38′ Lt "ML" 376+40.00	7.00′ Lt "ML" 424+83.50	25		4843												102	4" YELLOW EDGELINE
PD-1,3,4	19.96′ Rt "ML" 376+40.00	7.00′ Rt "ML" 424+92.00	25		4855												103	4" YELLOW EDGELINE
PD-1,2	0.00′ Lt "OSN" 86+36.96	0.00′ Lt "OSN" 93+04.42	25A		657												29	4" YELLOW EDGELINE
PD-1,3	0.00′ Rt "ONF" 32+86.01	0.00′ Rt "ONF" 43+44.24	25A		1059												47	4" YELLOW EDGELINE
PD-3	0.00′ Lt "ONNL" 50+00.00	0.00′ Lt "ONNL" 58+02.36	25A		792												35	4" YELLOW EDGELINE
PD-3	0.00′ Lt "ONN" 40+00.00	0.00′ Rt "ONN" 47+10.86	25A		701												31	4" YELLOW EDGELINE
PD-2	0.00′ Lt "OSF" 60+56.34	0.00′ Rt "OSF" 71+20.66	25A		1064												47	4" YELLOW EDGELINE
PD-2	0.00′ Lt "OSNL" 75+87.25	0.00′ Lt "OSNL" 83+90.96	25A		794												35	4" YELLOW EDGELINE
PD-2	49.76′ Lt "ML" 404+35.08	49.30′ Lt "ML" 410+27.17	27B	592														4" WHITE EDGELINE
PD-1,2	42.56′ Lt "ML" 375+50.84	48.00′ Rt "ORH" 18+20.09	27B	2756														4" WHITE EDGELINE
PD-1,3	43.82′ Rt "ML" 376+40.00	59.42′ Rt "ONF" 43+48.85	27B	3202														4" WHITE EDGELINE
PD-1,2	54.19′ Lt "ML" 395+70.58	48.00′ Lt "ORH" 20+72.80	27B	1717														4" WHITE EDGELINE
PD-1,3	47.30′ Rt "ML" 397+12.02	49.81′ Rt "ML" 402+75.73	27B	564														4" WHITE EDGELINE
PD-3	48.00′ Rt "ORH" 24+80.20	52.70′ Rt "ML" 411+70.63	27B	1771														4" WHITE EDGELINE
PD-3,4	48.00′ Lt "ORH" 28+05.15	43.00′ Rt "ML" 424+92.00	27B	2152														4" WHITE EDGELINE
PD-2,4	62.78′ Lt "OSF" 60+56.28	43.00′ Lt "ML" 424+83.50	27B	2590														4" WHITE EDGELINE
PD-5	4.00′ Rt "SP" 13+07.95	0.00′ Lt "SP" 15+59.60	28		1000													4" DOUBLE YELLOW MEDIAN
PD-5	6.00′ Lt & 14.00′ Rt "ORH" 32+86.21	2.00′ Lt & 6.00′ Rt "ORH" 34+43.99	28		316													4" DOUBLE YELLOW MEDIAN
PD-5	6.00′ Lt & Rt "ORH" 28+75	6.00′ Lt & Rt "ORH" 29+10	28		35													4" DOUBLE YELLOW MEDIAN
PD-3,6	6.00′ Lt & Rt "ORH" 29+10.00	6.00′ Lt & 14.00′ Rt "ORH" 32+86.21	31		376													TWO-WAY LEFT TURN LANES
PD-1	47.30′ Rt "ML" 394+27.86	47.30′ Rt "ML" 397+12.02	36				571									50		8" WHITE EXIT RAMP
PD-2,4	49.30′ Lt "ML" 410+27.17	49.29′ Lt "ML" 412+97.27	36				541									48		8" WHITE EXIT RAMP
SHEET TOTAL				15344	19787	0	1112	0	0	18538	6054	1556	0	16	0	613	429	

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: HUEY NHAM
CHECKED BY: DAVID WILLIAMS
REVISED BY: HN 4/19/12
DATE REVISED: HN 5/24/12

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 07:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	226	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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URS CORPORATION
1380 Lead Hill Blvd.
Suite 100
Roseville, CA 95661

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

PAVEMENT DELINEATION QUANTITIES

SHEET	STATION FROM	STATION TO	DETAIL No.	THERMOPLASTIC TRAFFIC STRIPE (LF) 4" WHITE	4" YELLOW	6" WHITE	8" WHITE	8" (BROKEN 12-3) WHITE	4" (BROKEN 6-1) WHITE	4" (BROKEN 36-12) WHITE	4" (BROKEN 17-7) WHITE	PAVEMENT MARKER (NON-REFLECTIVE) (EA) TYPE A	TYPE AY	PAVEMENT MARKER (RETROREFLECTIVE) (EA) TYPE C	TYPE D	TYPE G	TYPE H	DESCRIPTION
PD-1	47.30′ Lt "ML" 392+32.29	54.19′ Lt "ML" 395+70.58	36A	336			337									16		4" & 8" WHITE ENTRANCE RAMP
PD-2	49.49′ Lt "ML" 402+30.35	49.76′ Lt "ML" 404+35.08	36A	205			206									10		4" & 8" WHITE ENTRANCE RAMP
PD-3	49.81′ Rt "ML" 402+75.73	49.77′ Rt "ML" 404+82.50	36A	207			208									10		4" & 8" WHITE ENTRANCE RAMP
PD-3,4	52.70′ Rt "ML" 411+70.63	47.30′ Rt "ML" 414+82.55	36A	312			313									15		4" & 8" WHITE ENTRANCE RAMP
PD-4	48.97′ Lt "ML" 417+38.56	45.26′ Lt "ML" 422+20.00	37					481						8		26		8" WHITE LANE DROP AT EXIT RAMP
PD-5	7.00′ Lt "SP" 10+69.50	7.00′ Lt "SP" 13+09.95	38				240									11		8" WHITE CHANNELIZING LINE
PD-5	6.00′ Lt "ORH" 11+87.33	6.03′ Lt "ORH" 13+54.51	38				167									8		8" WHITE CHANNELIZING LINE
PD-5	7.25′ Lt "ORH" 14+70.10	8.96 Lt "ORH" 16+45.75	38				176									9		8" WHITE CHANNELIZING LINE
PD-6	14.00′ Rt "ORH" 33+17.84	14.00′ Rt "ORH" 35+05.50	38				187									9		8" WHITE CHANNELIZING LINE
PD-5	22.00′ Lt "SP" 10+69.00	22.00′ Lt "SP" 11+59.95	38A				93									0		8" WHITE CHANNELIZING LINE
PD-5	34.00′ Lt "ORH" 11+90.00	34.90′ Lt "ORH" 14+10.11	38A				219									0		8" WHITE CHANNELIZING LINE
PD-2	36.00′ Lt "ORH" 18+41.02	36.00′ Lt "ORH" 20+53.00	38A				212									0		8" WHITE CHANNELIZING LINE
PD-2	36.00′ Rt "ORH" 18+40.00	36.00′ Rt "ORH" 19+96.80	38A				193									0		8" WHITE CHANNELIZING LINE
PD-2	12.00′ Lt "OSN" 89+02.93	12.00′ Lt "OSN" 91+62.11	38A				256									0		8" WHITE CHANNELIZING LINE
PD-2	12.00′ Lt "OSF" 60+56.28	12.00′ Lt "OSF" 64+39.15	38A				400									0		8" WHITE CHANNELIZING LINE
PD-2	26.00′ Lt "OSF" 60+56.28	12.00′ Lt "OSF" 66+48.64	38A				630									0		8" WHITE CHANNELIZING LINE
PD-2	38.00′ Lt "OSF" 60+56.28	38.00′ Lt "OSF" 64+39.15	38A				438									0		8" WHITE CHANNELIZING LINE
PD-2	12.00′ Lt "OSNL" 82+35.13	12.00′ Lt "OSNL" 78+84.65	38A				337									0		8" WHITE CHANNELIZING LINE
PD-3	36.00′ Rt "ORH" 25+00.00	36.00′ Rt "ORH" 27+50.58	38A				251									0		8" WHITE CHANNELIZING LINE
PD-3	36.00′ Lt "ORH" 25+86.67	36.00′ Lt "ORH" 27+85.00	38A				198									0		8" WHITE CHANNELIZING LINE
PD-3	12.00′ Rt "ONNL" 51+55.50	12.00′ Rt "ONNL" 55+24.06	38A				356									0		8" WHITE CHANNELIZING LINE
PD-3	12.00′ Rt "ONF" 39+71.18	12.00′ Rt "ONF" 43+45.33	38A				391									0		8" WHITE CHANNELIZING LINE
PD-3	12.00′ Rt "ONF" 37+28.07	26.00′ Rt "ONF" 43+46.49	38A				655									0		8" WHITE CHANNELIZING LINE
PD-3	38.00′ Rt "ONF" 39+71.18	38.00′ Rt "ONF" 43+47.39	38A				430									0		8" WHITE CHANNELIZING LINE
PD-3	12.00′ Rt "ONN" 41+47.27	12.00′ Rt "ONN" 44+93.98	38A				343									0		8" WHITE CHANNELIZING LINE
PD-6	44.00′ Rt "ORH" 33+55.00	44.00′ Rt "ORH" 35+05.54	38A				150									0		8" WHITE CHANNELIZING LINE
PD-4	61.34′ Lt "ML" 412+97.17	48.97′ Lt "ML" 417+38.56	38B				442									39		8" WHITE CHANNELIZING AT EXIT RAMP
PD-5	18.00′ Lt "SP" 10+69	18.00′ Lt "SP" 11+59.95	39			92												6" WHITE BIKE LANE LINE
PD-5	26.00′ Rt "SP" 11+07.41	26.00′ Rt "SP" 14+18.95	39			312												6" WHITE BIKE LANE LINE
PD-5	30.00′ Lt "ORH" 11+91	30.90′ Lt "ORH" 14+10.15	39			220												6" WHITE BIKE LANE LINE
PD-2,5	32.44′ Rt "ORH" 14+78.18	30.00′ Rt "ORH" 17+41.46	39			263												6" WHITE BIKE LANE LINE
PD-2,5	31.63′ Lt "ORH" 15+00.03	33.17′ Lt "ORH" 16+69.95	39			170												6" WHITE BIKE LANE LINE
PD-2	30.00′ Lt "ORH" 18+41.10	30.00′ Lt "ORH" 20+53.00	39			212												6" WHITE BIKE LANE LINE
PD-2,3	30.00′ Rt "ORH" 18+40.00	30.00′ Rt "ORH" 24+10.00	39			570												6" WHITE BIKE LANE LINE
PD-2,3	30.00′ Lt "ORH" 21+43.00	30.00′ Lt "ORH" 27+85.00	39			642												6" WHITE BIKE LANE LINE
PD-3	30.00′ Rt "ORH" 25+00.00	30.00′ Rt "ORH" 27+50.58	39			251												6" WHITE BIKE LANE LINE
PD-3,6	30.09′ Rt "ORH" 29+18.73	38.00′ Rt "ORH" 32+34.49	39			317												6" WHITE BIKE LANE LINE
PD-3,6	30.00′ Lt "ORH" 28+75.00	30.00′ Lt "ORH" 35+10.43	39			636												6" WHITE BIKE LANE LINE
PD-6	38.00′ Rt "ORH" 33+55.00	38.00′ Rt "ORH" 35+05.53	39			150												6" WHITE BIKE LANE LINE
PD-6	56.00′ Rt "ORH" 33+27.20	77.74 Rt "ORH" 34+81.82	39			160												6" WHITE BIKE LANE LINE
PD-6	86.29′ Rt "ORH" 34+87.36	137.84′ Rt "ORH" 34+87.47	39			53												6" WHITE BIKE LANE LINE
PD-6	39.10′ Rt "ORH" 36+11.48	40.29′ Rt "ORH" 37+47.88	39			136												6" WHITE BIKE LANE LINE
PD-5	6.16′ Lt "ORH" 10+62.55	57.21′ Rt "ORH" 11+04.95	40						91									4" WHITE LANELINE EXTENSION
PD-5	4.15′ Rt "ORH" 10+79.69	50.91′ Lt "ORH" 11+50.98	40						97									4" WHITE LANELINE EXTENSION
PD-5	57.18′ Rt "ORH" 11+03.03	6.13′ Rt "ORH" 11+68.14	40						88									4" WHITE LANELINE EXTENSION
PD-5	1.72′ Rt "ORH" 11+68.49	48.81′ Lt "ORH" 11+41.24	40						60									4" WHITE LANELINE EXTENSION
PD-2	41.44′ Lt "ORH" 17+76.90	18.00′ Rt "ORH" 18+40.00	40						104									4" WHITE LANELINE EXTENSION
PD-3	18.00′ Lt "ORH" 27+71.77	41.74′ Rt "ORH" 28+15.28	40						86									4" WHITE LANELINE EXTENSION
PD-5	97.94′ Rt "ORH" 14+07.49	58.66′ Rt "ORH" 14+26.46	23									0	20	0	6	0	0	NO PASSING ZONE-MARKERS
PD-5	0.89′ Rt "ORH" 13+80.82	3.04′ Rt "ORH" 16+45.85	26									0	0	0	0	0	8	LEFT EDGELINE-MARKERS
SHEET TOTAL (PDQ-2)				1060	0	4184	7828	481	526	0	0	0	20	8	6	153	8	
SHEET TOTAL (PDQ-1)				15344	19787	0	1112	0	0	18538	6054	1556	0	16	0	613	429	
GRAND TOTAL				36191		4184	8940	481	526	18538	6054	1576		1233				

PAVEMENT DELINEATION QUANTITIES

PDQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: HUEY NHAM
CHECKED BY: DAVID WILLIAMS
REVISED BY: HN 4/19/12
REVISED BY: HN 5/24/12
DATE REVISED

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 07:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	227	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
David A. Williams
No. C58697
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

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URS CORPORATION
1380 Lead Hill Blvd.
Suite 100
Roseville, CA 95661

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

THERMOPLASTIC PAVEMENT MARKING

PER SQFT	EA / LF	TOTAL SQFT	DESCRIPTION
42	41	1722	TYPE III ARROW
31	4	124	TYPE I (24') ARROW
14	1	14	TYPE I (10') ARROW
15	2	30	TYPE IV ARROW
42	3	126	TYPE VI ARROW
31	4	124	"AHEAD" PAVEMENT MARKING
7	11	77	"BIKE" PAVEMENT MARKING
7	11	77	"BIKE ARROW" PAVEMENT MARKING
2	7	14	"BIKE DETECTOR" PAVEMENT MARKING
17	6	102	"CAR" PAVEMENT MARKING
27	2	54	"CLEAR" PAVEMENT MARKING
16	4	64	"FWY" PAVEMENT MARKING
24	2	48	"KEEP" PAVEMENT MARKING
24	6	144	"LANE" PAVEMENT MARKING
22	4	88	"ONLY" PAVEMENT MARKING
23	6	138	"POOL" PAVEMENT MARKING
32	4	128	"SIGNAL" PAVEMENT MARKING
22	1	22	"STOP" PAVEMENT MARKING
1	576	576	LIMIT LINE
1	1,511	1511	CROSSWALK
11	18	198	CARPOOL LANE DIAMOND MARKING
1	92	92	12-IN DIAGONAL YELLOW STRIPE
TOTAL		5473	

DELINEATOR (CLASS 1)

TYPE	EA
F	126
G	58
E	21
TOTAL	205

OBJECT MARKER

LOCATION	TYPE OM1-1	TYPE Q
	EA	EA
PD-2		2
PD-3		1
PD-5		3
PD-6		4
S-2	1	
S-5	1	
S-6	1	
SUBTOTAL	3	10
TOTAL	13	

PAVEMENT DELINEATION QUANTITIES
PDQ-3

REVISED BY	HN	HN	HN
DATE REVISED	4/19/12	5/24/12	
HUEY NHAM			
DAVID WILLIAMS			
CALCULATED-DESIGNED BY			
CHECKED BY			
CONSULTANT FUNCTIONAL SUPERVISOR			
RAMSEY HISSEN			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	228	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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1380 Lead Hill Blvd.
Suite 100
Roseville, CA 95661

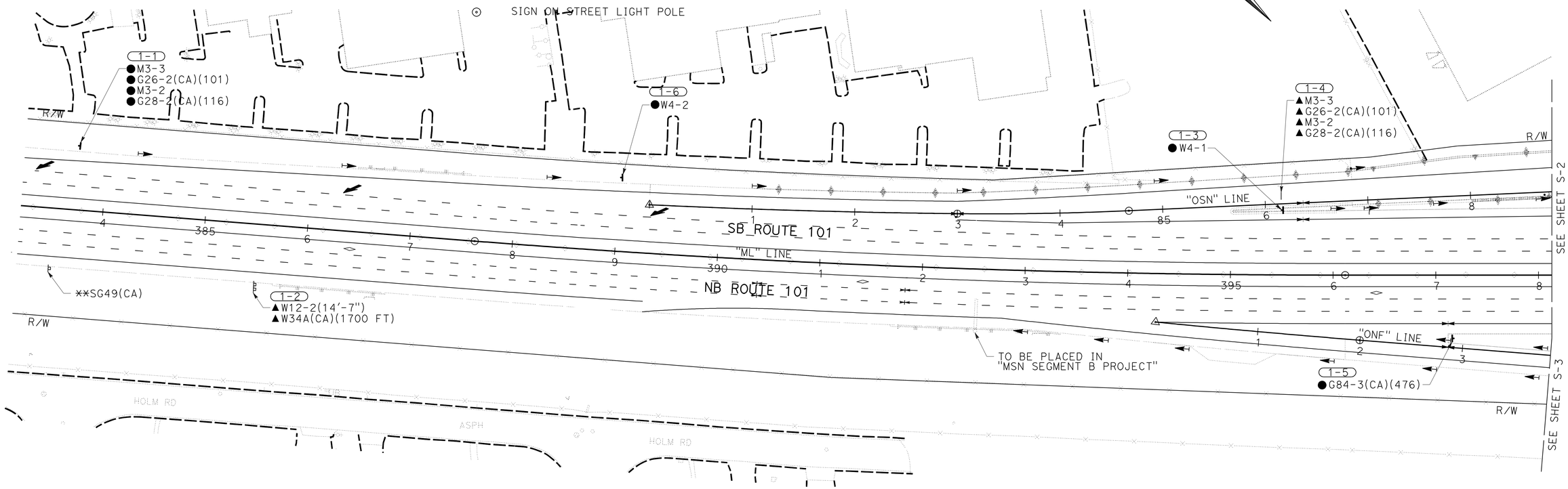
CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA SIGN CODES.
3. EXACT LOCATION AND POSITION OF ROADSIDE SIGNS TO BE DETERMINED BY THE ENGINEER.
4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH CALTRANS 2006 STANDARD PLANS AND 2006 SPECIFICATIONS, THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), SIGN SPECIFICATIONS AND THE SPECIAL PROVISIONS.

LEGEND

*	RELOCATE ROADSIDE SIGN (FROM / TO)	(CA)	CALIFORNIA SIGN CODE
▲	REMOVE ROADSIDE SIGN	(BM)	BARRIER MOUNTED
●	NEW ROADSIDE SIGN	(MA)	MAST-ARM MOUNTED
■	RESET ROADSIDE SIGN	(E)	ELECTRICAL ITEM (SEE ELECTRICAL PLAN E-14, E-16, E-19)
**	EXISTING SIGN TO REMAIN	(X-X)	ROADSIDE SIGN (WITH NUMBER)
	ROADSIDE SIGN ONE POST	○	CHANNELIZER (SURFACE MOUNTED)
	ROADSIDE SIGN TWO POST	(LP)	LIGHT POLE MOUNTED
	EXISTING SIGN	SSBM	STRAP AND SADDLE BRACKET METHOD
	EXISTING SIGN TWO POST		
⊙	SIGN ON STREET LIGHT POLE		



APPROVED FOR SIGN WORK ONLY

SIGN PLAN

SCALE: 1" = 50'

S-1

HN	5/24/12	REVISED BY	DATE REVISED
HN	4/19/12		
HUEY NHAM	DAVID WILLIAMS	CALCULATED-DESIGNED BY	CHECKED BY
RAMSEY HISSEN		CONSULTANT FUNCTIONAL SUPERVISOR	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 TIME PLOTTED => 07:54

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David A. Williams
No. C58697
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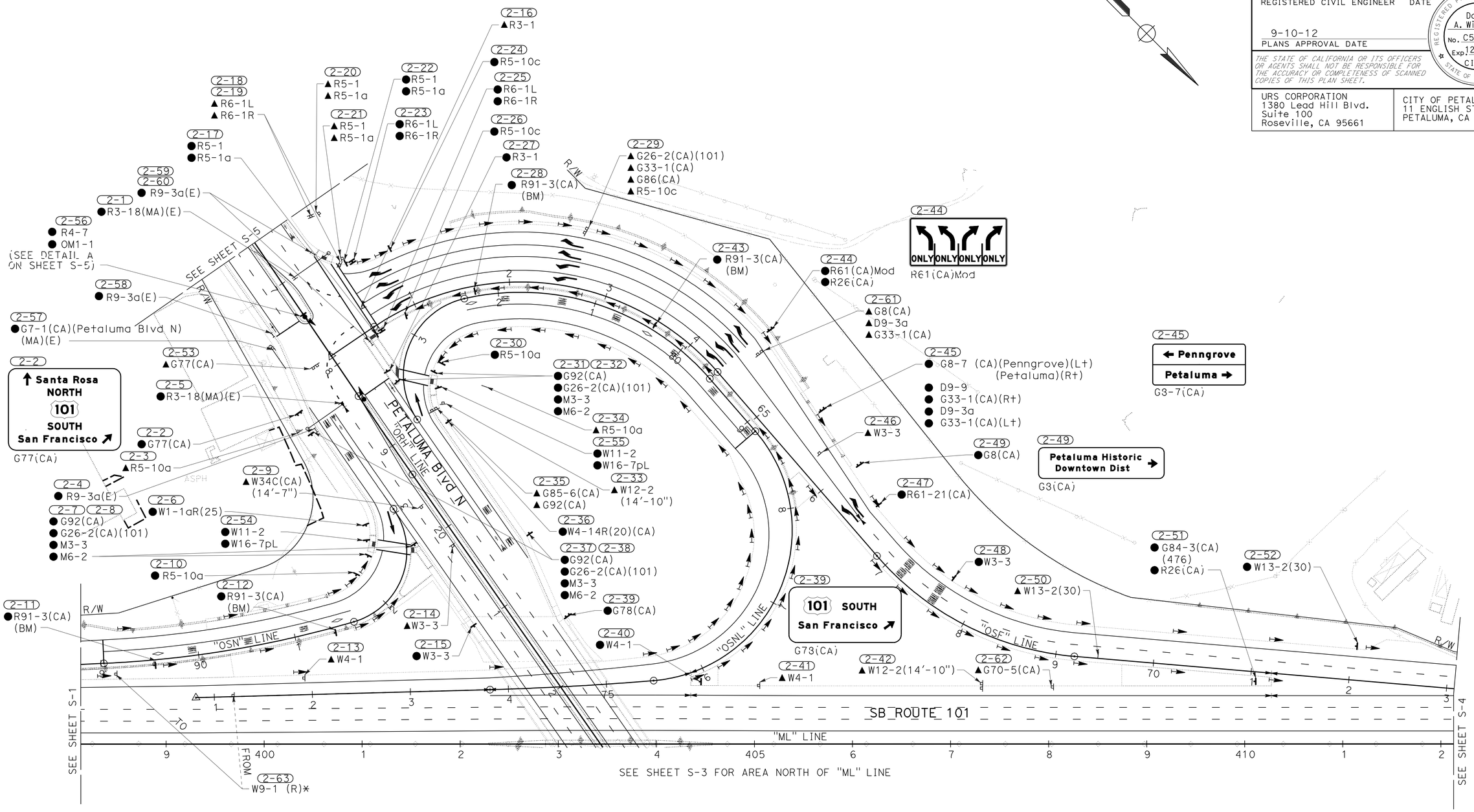
11 ENGLISH STREET
PETALUMA, CA 94952



APPROVED FOR SIGN WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET S-1

SIGN PLAN

SCALE: 1" = 50'

S-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: DAVID WILLIAMS
CHECKED BY: HUEY NHAM
REVISED BY: HN HN
DATE REVISED: 4/19/12 5/24/12

LAST REVISION DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 07:54
04-19-12

BORDER LAST REVISED 7/2/2010
USERNAME => s124496
DGN FILE => 04000020652oa002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0751
PROJECT NUMBER & PHASE 04000206521

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	230	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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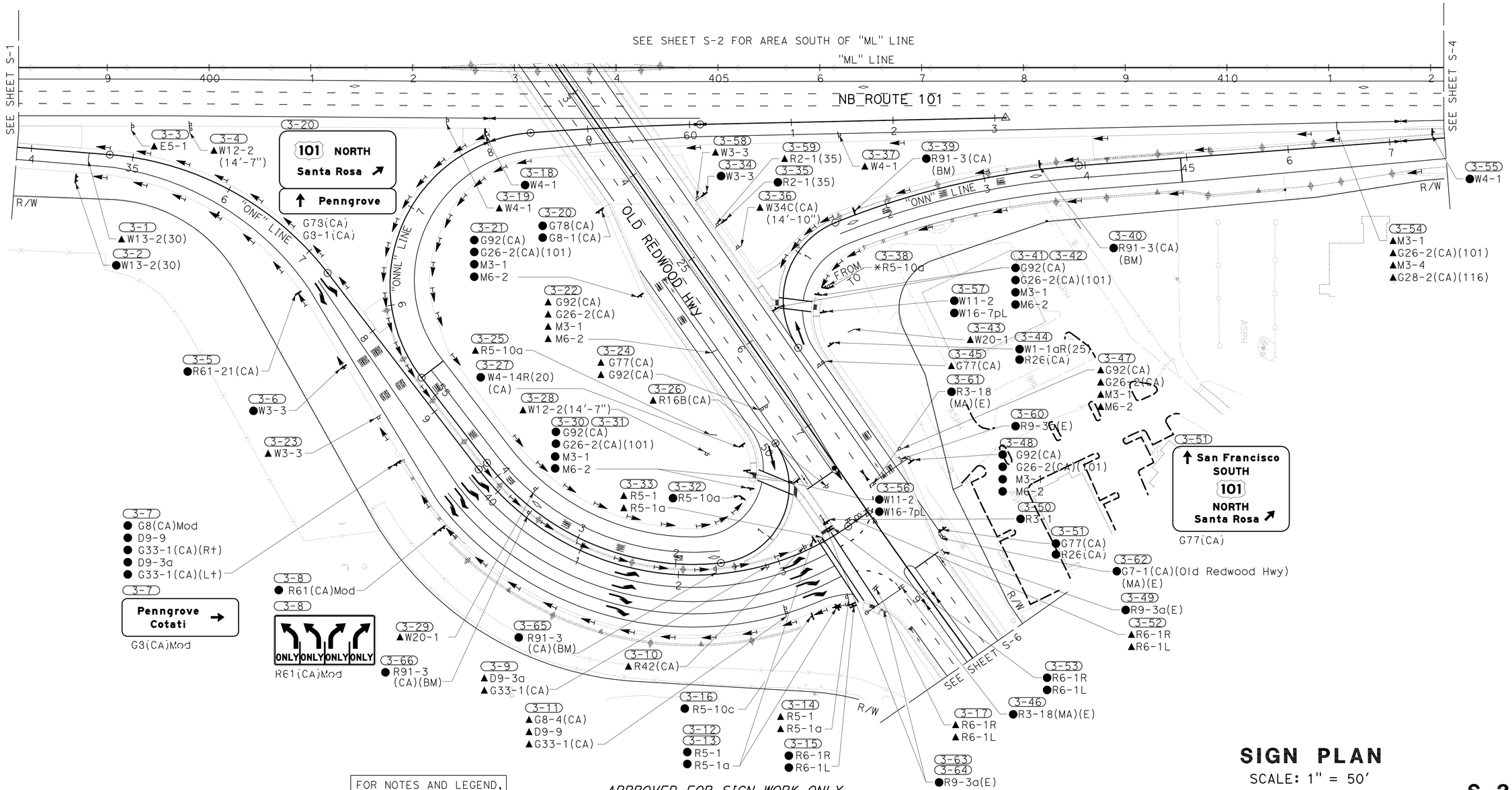
CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952



FOR NOTES AND LEGEND, SEE SHEET S-1

APPROVED FOR SIGN WORK ONLY

SIGN PLAN

SCALE: 1" = 50'

S-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: DAVID WILLIAMS
CHECKED BY: HUEY NHAM
REVISED BY: HN
DATE REVISED: 4/19/12
HN 5/24/12

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:54

BORDER LAST REVISED 7/2/2010 | USERNAME => s124496 | DGN FILE => 0400020652oa003.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0751 | PROJECT NUMBER & PHASE 04000206521

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	231	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
David A. Williams
No. C58697
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

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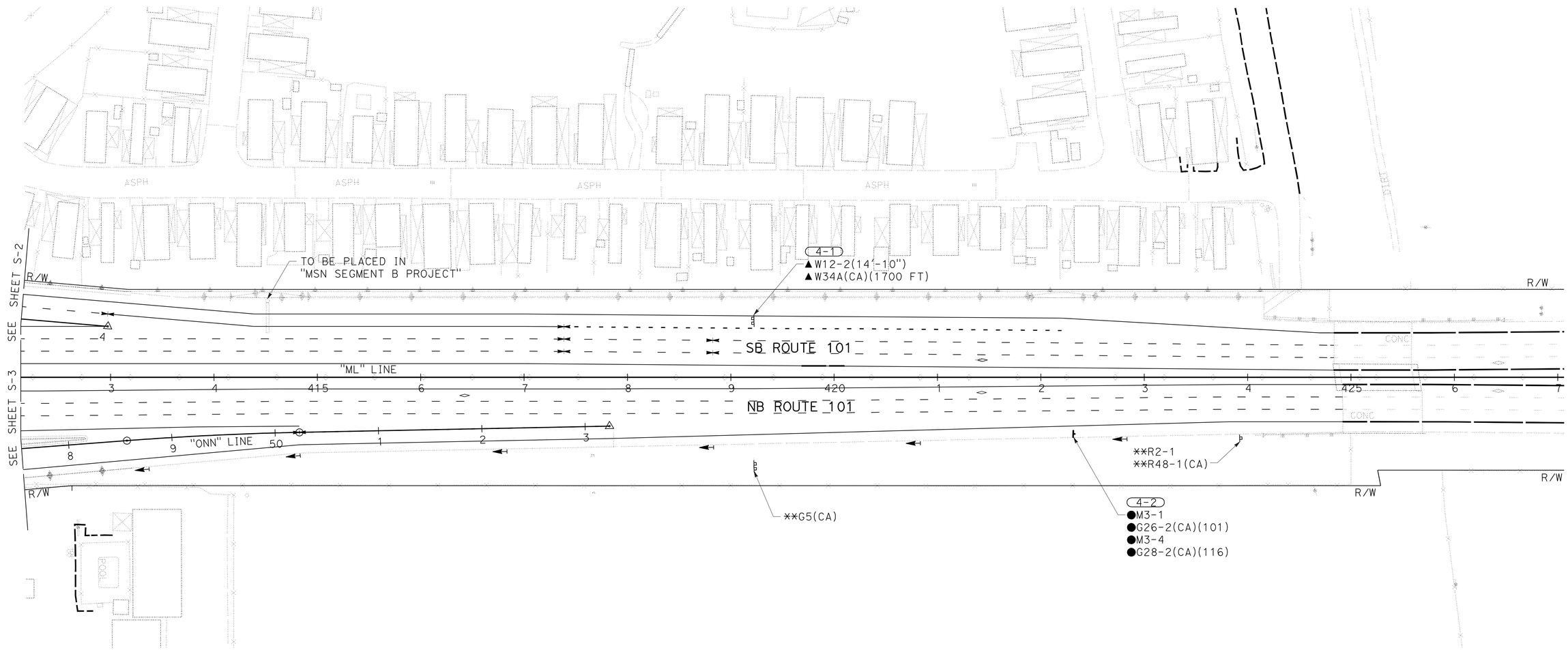

SIGN PLAN

SCALE: 1" = 50'

S-4

APPROVED FOR SIGN WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET S-1

HUEY NHAM	HN	5/24/12
DAVID WILLIAMS	HN	4/19/12
CALCULATED-DESIGNED BY	REVISED BY	
CHECKED BY	DATE REVISED	

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	232	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
David A. Williams
No. C58697
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

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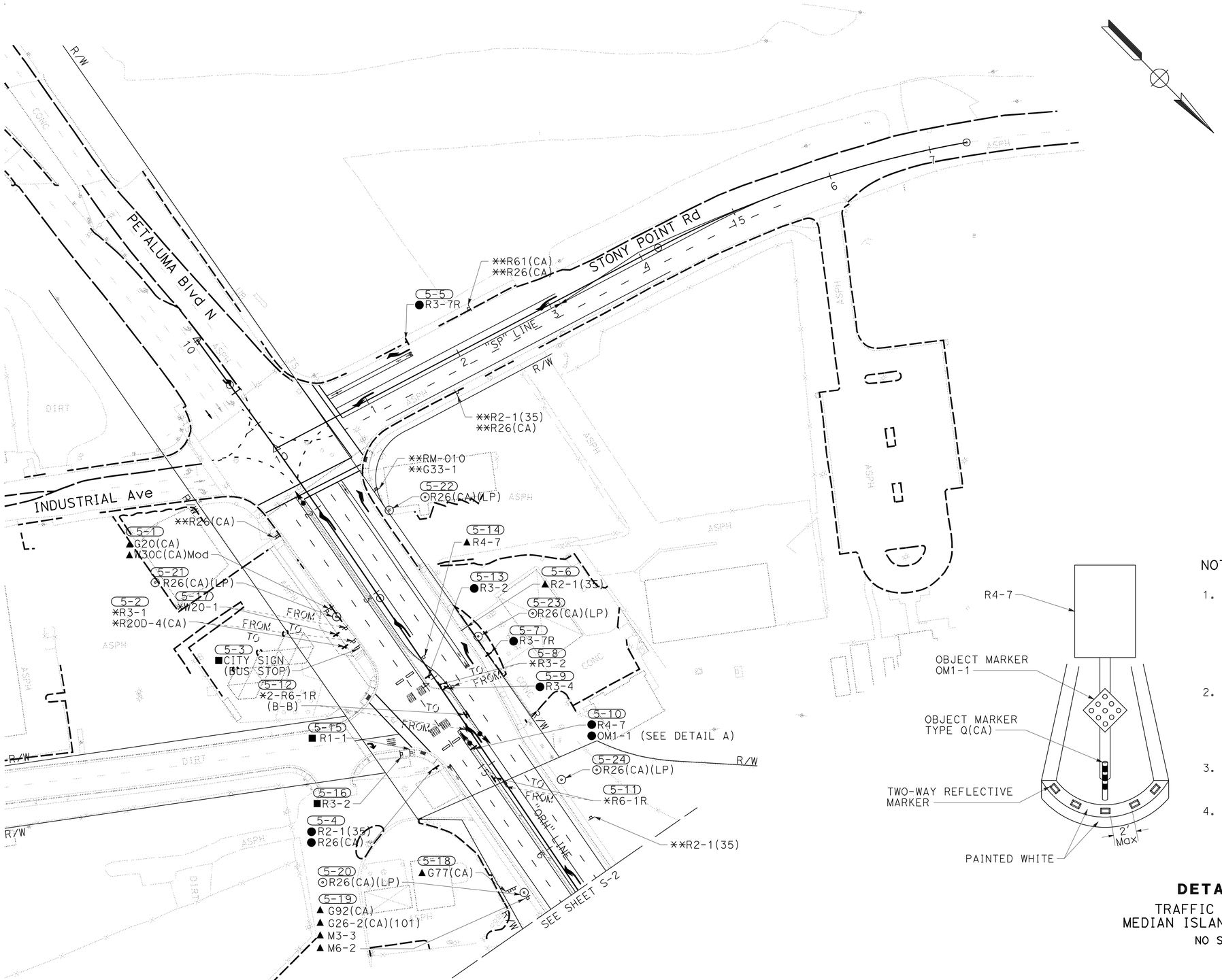

NOTES:

1. TWO-WAY REFLECTIVE MARKERS SHALL BE INSTALLED ON TOP OF THE CURB AT THE ISLAND NOSE, ALONG RADIAL LINES AS ILLUSTRATED IN DETAIL. THE COLOR OF THESE MARKERS SHALL BE IN CONFORMANCE WITH CALIFORNIA MUTCD; WHITE MARKERS SHALL BE USED IF THE ISLAND SEPARATES SAME DIRECTION TRAFFIC, AND YELLOW MARKERS SHALL BE USE IF THE ISLAND SEPARATES OPPOSITE DIRECTION TRAFFIC.
2. THE MINIMUM NUMBER OF TWO-WAY REFLECTIVE MARKERS SHALL BE FIVE, ONE AT EACH BEGINNING OF CURVE OF THE ISLAND NOSE AND ONE AT MID POINT. THE MAXIMUM DISTANCE BETWEEN MARKERS SHALL BE 2 FEET. ADDITIONAL MARKERS SHALL BE INSTALLED TO MAINTAIN THIS MAXIMUM ALLOWABLE SPACING.
3. OBJECT MARKER TYPE Q SHALL BE INSTALLED AT THE MIDPOINT OF THE ISLAND NOSE AND JUST BEHIND THE ISLAND CURB.
4. WHEN THE WIDTH OF A MEDIAN ISLAND IS 3 FEET OR GREATER AND THE ISLAND SEPARATES TRAFFIC OF OPPOSITE DIRECTIONS, ROADSIDE SIGN R4-7 AND OBJECT MARKER OM1-1 SHALL BE INSTALLED AT THE MIDPOINT OF THE ISLAND NOSE DEFINED BY THE RADIUS.

DETAIL A

TRAFFIC MARKINGS
MEDIAN ISLAND TREATMENT
NO SCALE

APPROVED FOR SIGN WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET S-1

SIGN PLAN

SCALE: 1" = 50'

S-5

HN	5/24/12		
HN	4/19/12	REVISED BY	DATE REVISED
HUEY NHAM	DAVID WILLIAMS	CALCULATED-DESIGNED BY	CHECKED BY
RAMSEY HISSEN		CONSULTANT FUNCTIONAL SUPERVISOR	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	233	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
David A. Williams
No. C58697
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

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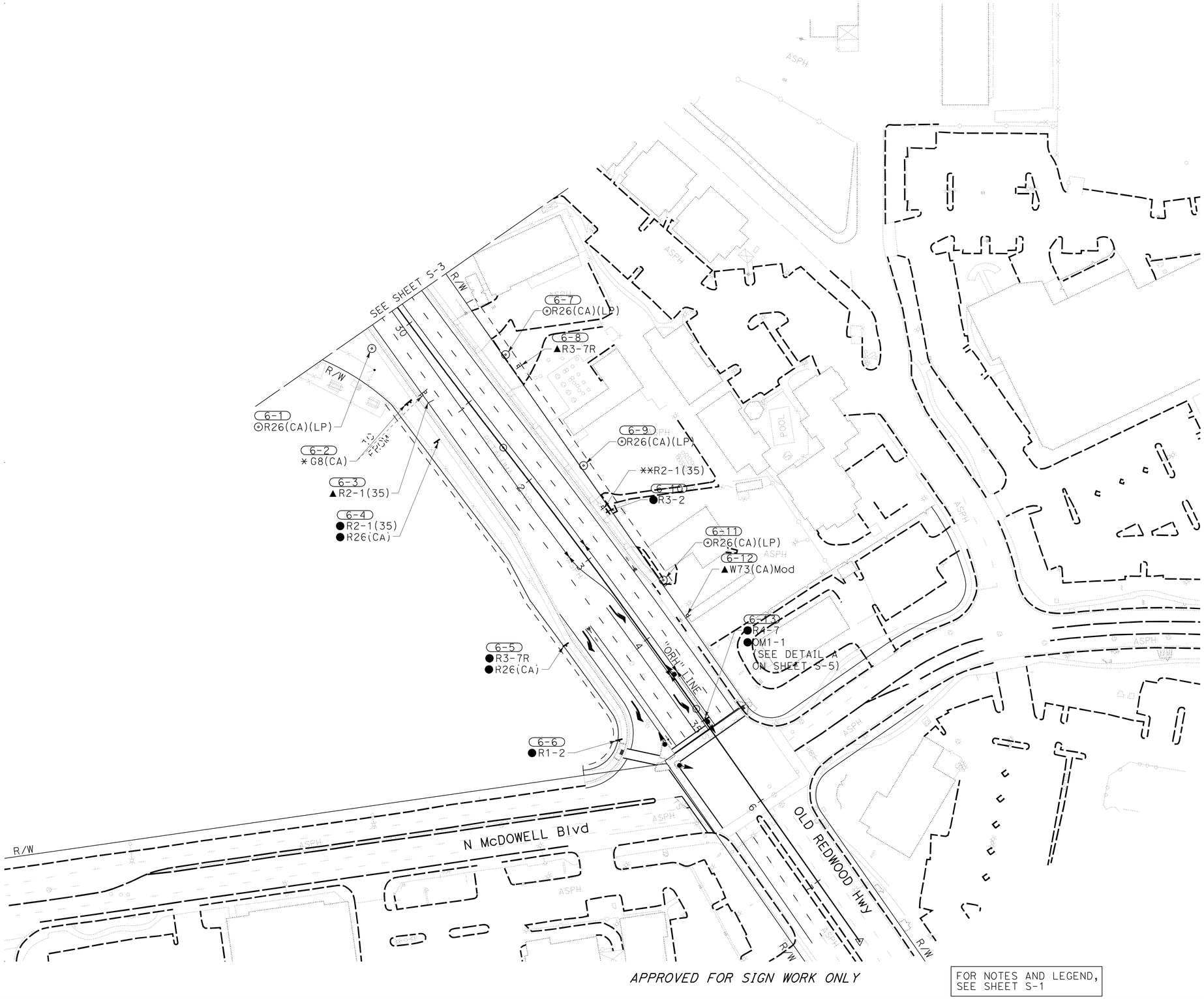
11 ENGLISH STREET
PETALUMA, CA 94952



APPROVED FOR SIGN WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET S-1

SIGN PLAN

SCALE: 1" = 50'

S-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: HUEY NHAM
CHECKED BY: DAVID WILLIAMS
REVISED BY: HN HN HN
DATE REVISED: 5/24/12 4/19/12

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 07:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	234	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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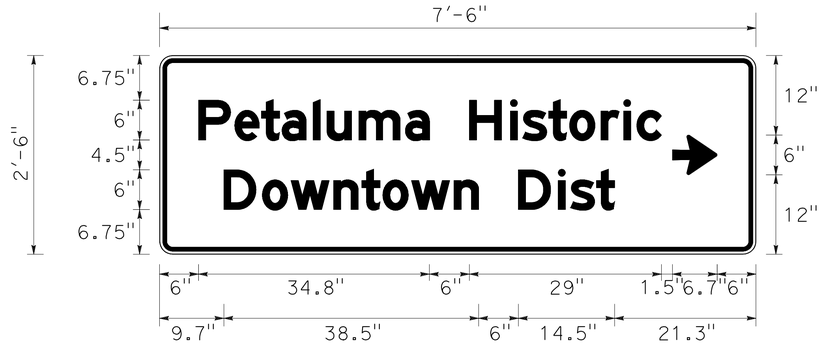
G8(CA)



1.5" RADIUS, 1.1" BORDER, WHITE ON GREEN
[Petaluma] E; [Historic] E;
[Downtown] E; [Dist] E;

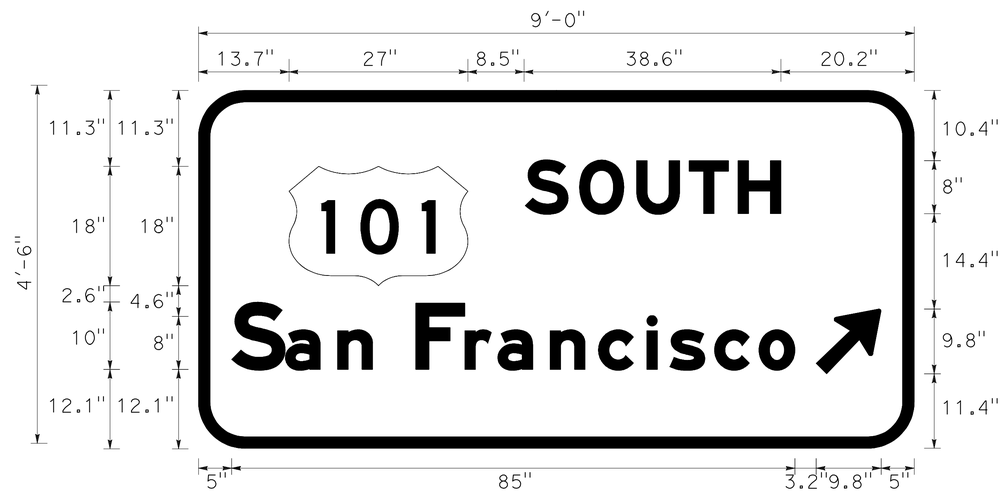
SIGN 2-49

G77(CA)

8" RADIUS, 1.5" BORDER, WHITE ON GREEN
[Santa Rosa] EM; [NORTH] EM;
[SOUTH] EM; [San Francisco] EM;

SIGN 2-2

G78(CA)



7" RADIUS, 1.75" BORDER, WHITE ON GREEN
[San Francisco] EM; [SOUTH] EM;

SIGN 2-39

SIGN DETAILS
NO SCALE

SD-1

HN	5/24/12		
HN	4/19/12		
REVISED BY	DATE REVISED		
HUEY NHAM	DAVID WILLIAMS		
CALCULATED-DESIGNED BY	CHECKED BY		
CONSULTANT FUNCTIONAL SUPERVISOR	RAMSEY HISSEN		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 04-19-12 | DATE PLOTTED => 09-OCT-2012 | TIME PLOTTED => 14:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	235	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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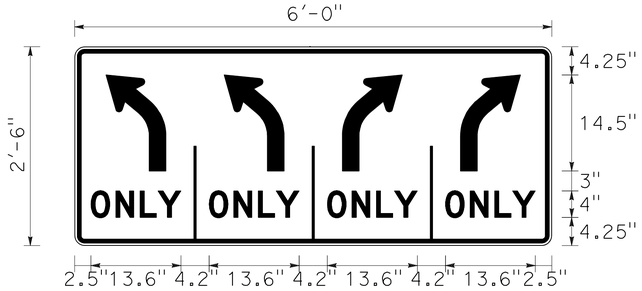
PETALUMA, CA 94952

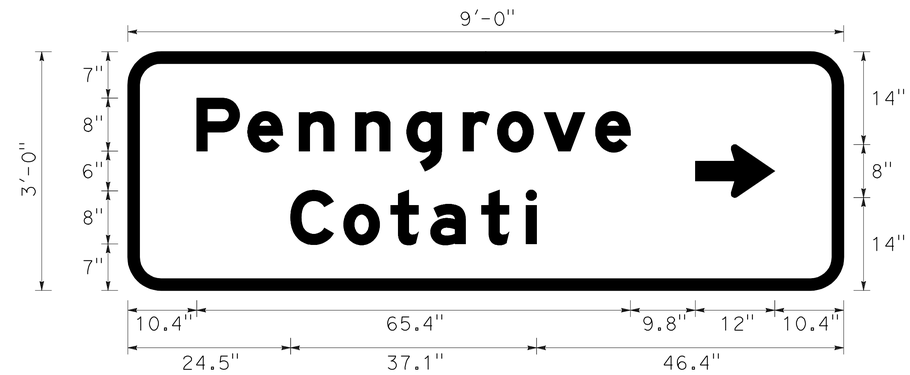
R61(CA)Mod



1" RADIUS, 1" BORDER, BLACK ON WHITE
[ONLY] D;

SIGN 2-44 3-8

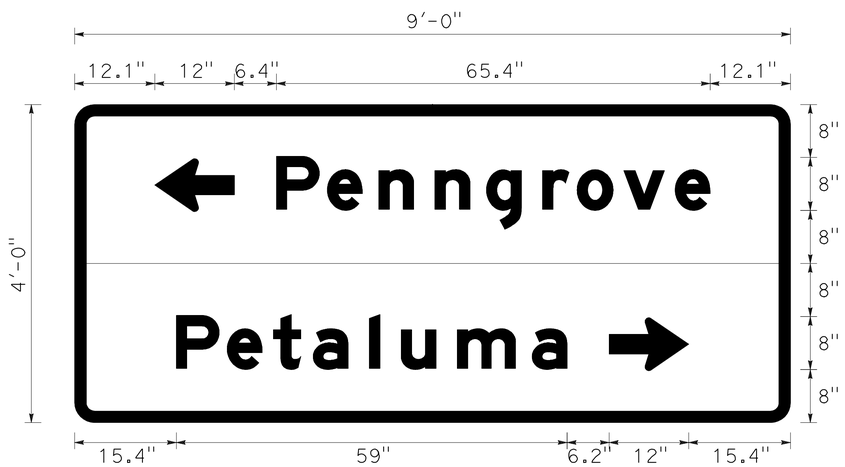
G8(CA)



5" RADIUS, 1.75" BORDER, WHITE ON GREEN
[Penngrove] EM; [Cotati] EM;

SIGN 3-7

G8-7(CA)



3" RADIUS, 1.75" BORDER, WHITE ON GREEN
[Penngrove] EM;

SIGN 2-45

SIGN DETAILS

NO SCALE

SD-2

HN	5/24/12		
HN	4/19/12		
REVISED BY	DATE REVISED		
HUEY NHAM	DAVID WILLIAMS		
CALCULATED-DESIGNED BY	CHECKED BY		
CONSULTANT FUNCTIONAL SUPERVISOR	RAMSEY HISSEN		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 04-19-12 | DATE PLOTTED => 09-OCT-2012 | TIME PLOTTED => 14:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	236	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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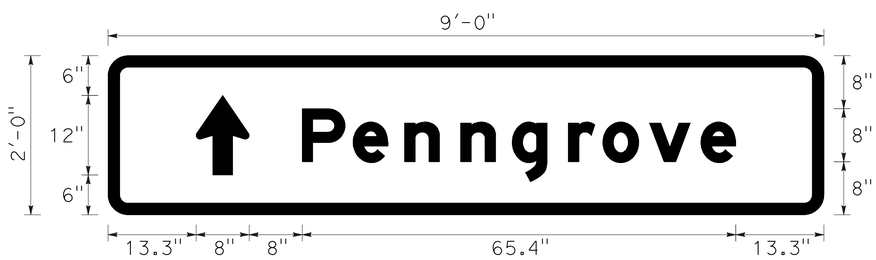
PETALUMA, CA 94952

G78(CA)

7" RADIUS, 1.75" BORDER, WHITE ON GREEN
[NORTH] EM; [Santa Rosa] EM;

SIGN 3-20

G8-1(CA)



3" RADIUS, 1.75" BORDER, WHITE ON GREEN
[Penngrove] EM;

SIGN 3-20

G77(CA)

8" RADIUS, 1.5" BORDER, WHITE ON GREEN
[San Francisco] EM; [SOUTH] EM;
[NORTH] EM; [Santa Rosa] EM;

SIGN 3-51

SIGN DETAILS

NO SCALE

SD-3

HUEY NHAM	REVISED BY	HN	HN
DAVID WILLIAMS	DATE REVISED	4/19/12	5/24/12
CALCULATED-DESIGNED BY			
CHECKED BY			
CONSULTANT FUNCTIONAL SUPERVISOR	RAMSEY HISSEN		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	237	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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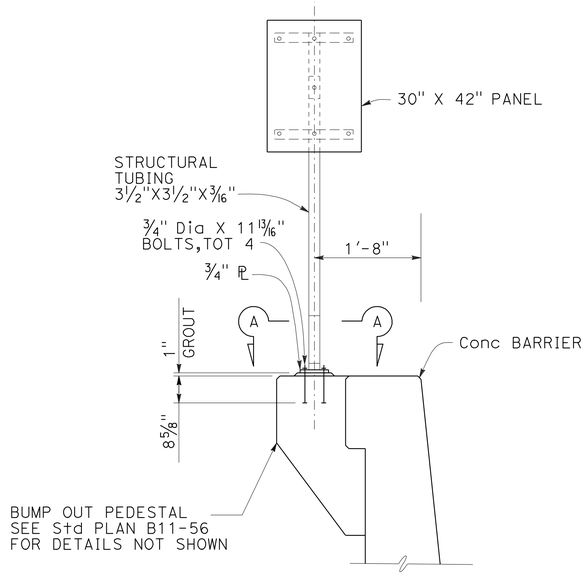
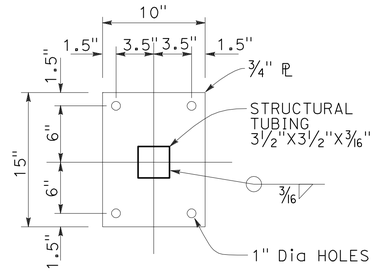
CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

NOTES:

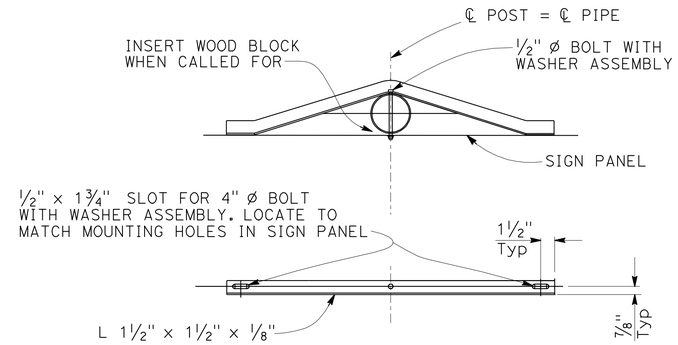
1. ALL STEEL SHALL BE GALVANIZED AFTER FABRICATION.
2. WASHER ASSEMBLY CONSISTS OF FLAT AND FIBER WASHERS, NUT AND JAM NUT.
3. THE MINIMUM VERTICAL CLEARANCE BETWEEN TOP OF PAVEMENT AND BOTTOM OF THE LOWEST SIGN PANEL SHALL BE 7'.
4. MOUNTING DETAILS FOR SIGNS 2-12, 2-28, 2-43, 3-39, 3-65, 3-66 ARE SHOWN ON CONSTRUCTION DETAILS FOR CONCRETE BARRIER TYPE 60P.



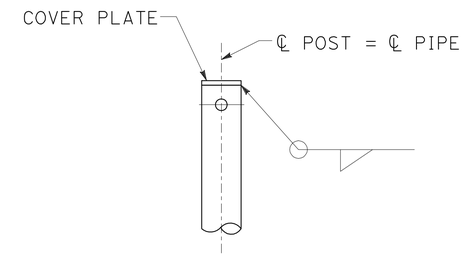
SIGN (2-11) (3-40)



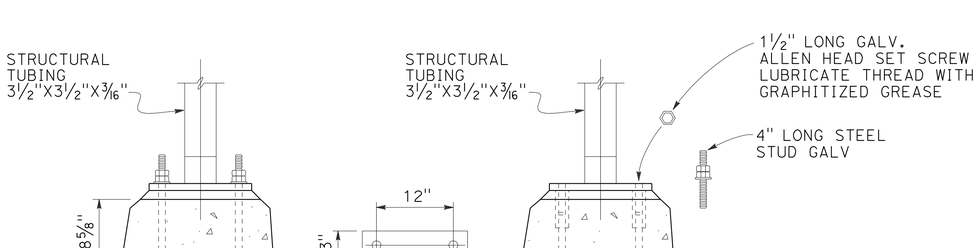
SECTION A-A



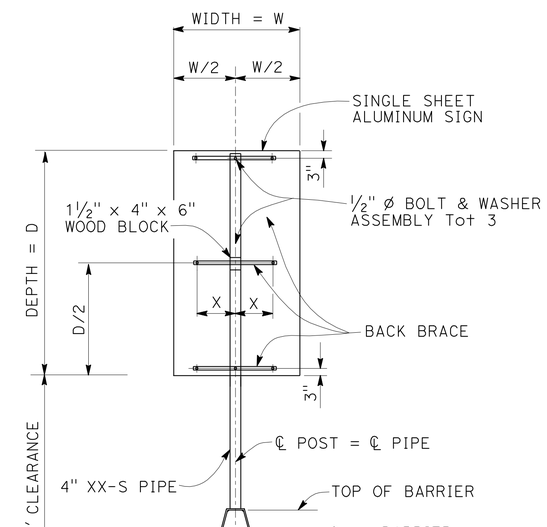
BACK BRACE DETAILS



TOP OF POST DETAIL



CIP BOLT ANCHORAGE ALTERNATIVES



ELEVATION

SIGN POST ON CONCRETE BARRIER

SIGN DETAILS

NO SCALE

SD-4

HN	5/24/12		
HN	4/19/12		
REVISED BY	DATE REVISED		
HUEY NHAM	DAVID WILLIAMS		
CALCULATED-DESIGNED BY	CHECKED BY		
CONSULTANT FUNCTIONAL SUPERVISOR	RAMSEY HISSEN		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	238	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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1380 Lead Hill Blvd.
Suite 100
Roseville, CA 95661

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

NOTES:

1. POST LENGTHS GIVEN ARE APPROXIMATE. EXACT LENGTH TO BE DETERMINED BY THE ENGINEER.
2. STEEL PIPES ARE USED FOR BARRIER MOUNTED SIGNS. SEE SHEETS SD-4 AND SD-5 FOR DETAILS.

ROADSIDE SIGN QUANTITIES

SIGN No.	SIGN CODE	PANEL SIZE	PANEL AREA	ROADSIDE SIGN		RELOCATE ROADSIDE SIGN	REMOVE ROADSIDE SIGN	RESET ROADSIDE SIGN	POST SIZE AND LENGTH (FT)(N)				METAL (RAIL MOUNTED SIGN)	SSBM	REMARKS
				ONE POST	TWO POST	ONE POST			4" x 4"	4" x 6"	6" x 6"	6" x 8"			
		IN x IN	SQFT	EA	EA	EA	EA	EA					LB	EA	
1-1	M3-3	30 X 15	3.13	1							19.6				
	G26-2(CA)(101)	35 X 30	7.29												
	M3-2	30 X 15	3.13												
	G28-2(CA)(116)	35 X 31.25	7.60												
1-2	W12-2(14'-7")						1								
	W34(CA)(1700 FT)														
1-3	W4-1	48 X 48	16.00	1							16				
1-4	M3-3						1								
	G26-2(CA)(101)														
	M3-2														
	G28-2(CA)(116)														
1-5	G84-3(CA)(476)	48 X 60	20.00	1							17				
1-6	W4-2	48 X 48	16.00	1							16				
2-1	R3-18	30 X 30	6.25												MAST ARM MOUNTED
2-2	G77(CA)	108 X 90	67.50		1							20.5			
2-3	R5-10a						1								
2-4	R9-3a	18 X 18	2.25												BARRICADE MOUNTED
2-5	R3-18	30 X 30	6.25												MAST ARM MOUNTED
2-6	W1-1aR(25)	48 X 48	16.00	1						17.2					
2-7	G92(CA)	48 X 30	10.00	1						14					
	G26-2(CA)(101)	28 X 24	4.67												
	M3-3	24 X 12	2.00												
	M6-2	21 X 15	2.19												
2-8	G92(CA)	48 X 30	10.00	1						14					
	G26-2(CA)(101)	28 X 24	4.67												
	M3-3	24 X 12	2.00												
	M6-2	21 X 15	2.19												
2-9	W34C(CA)(14'-7")						1								
2-10	R5-10a	30 X 36	7.50	1						14.5					
2-11	R91-3(CA)	30 X 42	8.75										160		BARRIER MOUNTED
2-12	R91-3(CA)	30 X 42	8.75										160		BARRIER MOUNTED
2-13	W4-1						1								
2-14	W3-3						1								
2-15	W3-3	36 X 36	9.00	1						14.5					
2-16	R3-1						1								
SHEET TOTAL				9	1	0	7	0					320	0	

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

SIGN QUANTITIES
SQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: HUEY NHAM
CHECKED BY: DAVID WILLIAMS
REVISED BY: HN — DATE REVISED: 4/19/12
HN — 5/24/12

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:55

ROADSIDE SIGN QUANTITIES

SIGN No.	SIGN CODE	PANEL SIZE	PANEL AREA	ROADSIDE SIGN		RELOCATE ROADSIDE SIGN	REMOVE ROADSIDE SIGN	RESET ROADSIDE SIGN	POST SIZE AND LENGTH (FT)(N)				METAL (RAIL MOUNTED SIGN)	SSBM	REMARKS
				ONE POST	TWO POST	ONE POST			4" x 4"	4" x 6"	6" x 6"	6" x 8"			
		IN x IN	SQFT	EA	EA	EA	EA	EA					LB	EA	
2-17	R5-1	36 X 36	9.00	1						16					
	R5-1a	36 X 24	6.00												
2-18	R6-1R						1								
	R6-1L														
2-19	R6-1R						1								
	R6-1L														
2-20	R5-1						1								
	R5-1a														
2-21	R5-1						1								
	R5-1a														
2-22	R5-1	36 X 36	9.00	1						16					
	R5-1a	36 X 24	6.00												
2-23	R6-1R	54 X 18	6.75	1					7.0						
	R6-1L	54 X 18	6.75												
2-24	R5-10c	24 X 12	2.00	1					11.5						
2-25	R6-1R	54 X 18	6.75	1					7.0						
	R6-1L	54 X 18	6.75												
2-26	R5-10c	24 X 12	2.00	1					11.5						
2-27	R3-1	36 X 36	9.00	1						14.5					
2-28	R91-3(CA)	30 X 42	8.75										160		BARRIER MOUNTED
2-29	G26-2(CA)(101)						1								
	G33-1(CA)														
	G86(CA)														
	R5-10c														
2-30	R5-10a	30 X 36	7.50	1						14.5					
2-31	G92(CA)	48 x 30	10.00	1						14					
	G26-2(CA)(101)	28 X 24	4.67												
	M3-3	24 X 12	2.00												
	M6-2	21 X 15	2.19												
2-32	G92(CA)	48 x 30	10.00	1						14					
	G26-2(CA)(101)	28 X 24	4.67												
	M3-3	24 X 12	2.00												
	M6-2	21 X 15	3.13												
2-33	W12-2(14'-10")						1								
2-34	R5-10a						1								
2-35	G85-6(CA)						1								
	G92(CA)														
2-36	W4-14R(20)	36 X 48	12.00	1						15.5					
SHEET TOTAL				11	0	0	8	0					160	0	

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	239	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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Roseville, CA 95661

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

REVISED BY	DATE REVISED
HN	5/24/12
HN	4/19/12

HUEY NHAM — DAVID WILLIAMS

CALCULATED-DESIGNED BY — CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR — RAMSEY HISSEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

SIGN QUANTITIES
SQ-2

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:55

ROADSIDE SIGN QUANTITIES

SIGN No.	SIGN CODE	PANEL SIZE	PANEL AREA	ROADSIDE SIGN		RELOCATE ROADSIDE SIGN	REMOVE ROADSIDE SIGN	RESET ROADSIDE SIGN	POST SIZE AND LENGTH (FT)(N)				METAL (RAIL MOUNTED SIGN)	SSBM	REMARKS
				ONE POST	TWO POST	ONE POST			4" x 4"	4" x 6"	6" x 6"	6" x 8"			
		IN x IN	SQFT	EA	EA	EA	EA	EA					LB	EA	
2-37	G92(CA)	48 x 30	10.00	1						14					
	G26-2(CA)(101)	35 x 30	7.29												
	M3-3	24 X 12	2.00												
	M6-2	21 X 15	2.19												
2-38	G92(CA)	48 x 30	10.00	1						14					
	G26-2(CA)(101)	35 x 30	7.29												
	M3-3	24 X 12	2.00												
	M6-2	21 X 15	2.19												
2-39	G78(CA)	108 X 54	40.50		1						16.5				
2-40	W4-1	48 X 48	16.00	1						17.2					
2-41	W4-1						1								
2-42	W12-2(14'-10")						1								
2-43	R91-3(CA)	30 X 42	8.75										160		BARRIER MOUNTED
2-44	R61(CA)Mod	72 X 30	15.00		1					14					
	R26(CA)	12 X 18	1.50												
2-45	G8-7(CA)	108 X 48	36.00		1						18.5				
	D9-9	30 X 30	6.25												
	G33-1(CA)(R†)	30 X 8	1.67												
	D9-3a	30 X 30	6.25												
	G33-1(CA)(L†)	30 X 8	1.67												
2-46	W3-3						1								
2-47	R61-21(CA)	48 X 36	12.00	1						14.5					
2-48	W3-3	48 X 48	16.00	1						17.2					
2-49	G8(CA)	90 X 30	18.75												
2-50	W13-2(30)						1								
2-51	G84-3(CA)(476)	48 X 60	20.00	1						13.0					
	R26(CA)	12 X 18	1.50												
2-52	W13-2(30)	48 X 60	20.00	1							17				
2-53	G77(CA)						1								
2-54	W11-2	30 X 30	6.25	1						15.0					
	W16-7pL	24 X 12	2.00												
2-55	W11-2	30 X 30	6.25	1						15.0					
	W16-7pL	24 X 12	2.00												
2-56	R4-7	24 X 30	5.00	1					13.0						
2-57	G7-1(CA)	84 X 24	14.00												MAST ARM MOUNTED
2-58	R9-3a(E)	18 X 18	2.25												BARRICADE MOUNTED
2-59	R9-3a(E)	18 X 18	2.25												BARRICADE MOUNTED
2-60	R9-3a(E)	18 X 18	2.25												BARRICADE MOUNTED
SHEET TOTAL				10	3	0	5	0					160	0	

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	240	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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PETALUMA, CA 94952

REVISED BY	DATE REVISED
HN	5/24/12
HN	4/19/12

HUEY NHAM — DAVID WILLIAMS
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CONSULTANT FUNCTIONAL SUPERVISOR — RAMSEY HISSEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

SIGN QUANTITIES
SQ-3

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:55

ROADSIDE SIGN QUANTITIES

SIGN No.	SIGN CODE	PANEL SIZE	PANEL AREA	ROADSIDE SIGN		RELOCATE ROADSIDE SIGN	REMOVE ROADSIDE SIGN	RESET ROADSIDE SIGN	POST SIZE AND LENGTH (FT)(N)				METAL (RAIL MOUNTED SIGN)	SSBM	REMARKS
				ONE POST	TWO POST	ONE POST			4" x 4"	4" x 6"	6" x 6"	6" x 8"			
		IN x IN	SQFT	EA	EA	EA	EA	EA					LB	EA	
2-61	G8						1								
	D9-3a														
	G33-1(CA)(R+)														
2-62	G70-5(CA)						1								
2-63	W9-1 (R)					1				15.7					
3-1	W13-2(30)						1								
3-2	W13-2(30)	48 X 60	20.00		1						17.0				
3-3	E5-1						1								
3-4	W12-2(14'-7")						1								
3-5	R61-21(CA)	48 X 36	12.00	1						14.5					
3-6	W3-3	48 X 48	16.00	1						17.2					
3-7	G8(CA)	108 X 36	27.00		1						18.2				
	D9-9	30 X 30	6.25												
	G33-1(CA)(R+)	30 X 8	1.67												
	D9-3a	30 X 30	6.25												
	G33-1(CA)(L+)	30 X 8	1.67												
3-8	R61(CA)Mod	72 X 30	15.00		1					14.0					
3-9	D9-3a						1								
	G33-1(CA)														
3-10	R42(CA)						1								
3-11	G8-4(CA)						1								
	D9-9														
	G33-1(CA)														
3-12	R5-1	36 X 36	9.00	1						16					
	R5-1a	36 X 24	6.00												
3-13	R5-1	36 X 36	9.00	1						16					
	R5-1a	36 X 24	6.00												
3-14	R5-1						1								
	R5-1a														
3-15	R6-1R	54 X 18	6.75	1					7.00						
	R6-1L	54 X 18	6.75												
3-16	R5-10c	24 X 12	2.00	1					11.5						
3-17	R6-1R						1								
	R6-1L														
3-18	W4-1	48 X 48	16.00	1						17.2					
3-19	W4-1						1								
3-20	G78(CA)	108 X 54	40.50		1							17.5			
	G8-1(CA)	108 X 24	18.00												
SHEET TOTAL				7	4	1	11	0					0	0	

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	241	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

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PETALUMA, CA 94952

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HUEY NHAM — DAVID WILLIAMS
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SIGN QUANTITIES
SQ-4

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ROADSIDE SIGN QUANTITIES

SIGN No.	SIGN CODE	PANEL SIZE	PANEL AREA	ROADSIDE SIGN		RELOCATE ROADSIDE SIGN	REMOVE ROADSIDE SIGN	RESET ROADSIDE SIGN	POST SIZE AND LENGTH (FT)(N)				METAL (RAIL MOUNTED SIGN)	SSBM	REMARKS
				ONE POST	TWO POST	ONE POST			4" x 4"	4" x 6"	6" x 6"	6" x 8"			
		IN x IN	SQFT	EA	EA	EA	EA	EA					LB	EA	
3-21	G92(CA)	48 x 30	10.00	1						14					
	G26-2(CA)(101)	35 x 30	7.29												
	M3-1	24 X 12	2.00												
	M6-2	21 X 15	2.19												
3-22	G92(CA)						1								
	G26-2(CA)														
	M3-1														
	M6-2														
3-23	W3-3						1								
3-24	G77(CA)						1								
	G92(CA)														
3-25	R5-10a						1								
3-26	R16B(CA)						1								
3-27	W4-14R(20)	36 X 48	12.00	1						15.5					
3-28	W12-2(14'-7")						1								
3-29	W20-1						1								
3-30	G92(CA)	48 x 30	10.00	1						14					
	G26-2(CA)(101)	35 x 30	7.29												
	M3-1	24 X 12	2.00												
	M6-2	21 X 15	2.19												
3-31	G92(CA)	48 x 30	10.00	1						14					
	G26-2(CA)(101)	35 x 30	7.29												
	M3-1	24 X 12	2.00												
	M6-2	21 X 15	2.19												
3-32	R5-10a	30 X 36	7.50	1						14.5					
3-33	R5-1						1								
	R5-1a														
3-34	W3-3	48 X 48	16.00	1							16				
3-35	R2-1(35)	36 X 48	12.00	1						15.5					
3-36	W34C(CA)(14'-10")						1								
3-37	W4-1						1								
3-38	R5-10a					1				14.5					
3-39	R91-3(CA)	30 X 42	8.75										160		BARRIER MOUNTED
3-40	R91-3(CA)	30 X 42	8.75										160		BARRIER MOUNTED
3-41	G92(CA)	48 x 30	10.00	1						14					
	G26-2(CA)(101)	35 x 30	7.29												
	M3-1	24 X 12	2.00												
	M6-2	21 X 15	2.19												
SHEET TOTAL				8	0	1	10	0					320	0	

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	242	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: DAVID WILLIAMS
CHECKED BY:
REVISED BY: HUEY NHAM
DATE REVISED: 4/19/12 5/24/12

SIGN QUANTITIES
SQ-5

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 07:55

ROADSIDE SIGN QUANTITIES

SIGN No.	SIGN CODE	PANEL SIZE	PANEL AREA	ROADSIDE SIGN		RELOCATE ROADSIDE SIGN	REMOVE ROADSIDE SIGN	RESET ROADSIDE SIGN	POST SIZE AND LENGTH (FT)(N)				METAL (RAIL MOUNTED SIGN)	SSBM	REMARKS
				ONE POST	TWO POST	ONE POST			4" x 4"	4" x 6"	6" x 6"	6" x 8"			
		IN x IN	SQFT	EA	EA	EA	EA	EA					LB	EA	
3-42	G92(CA)	48 x 30	10.00	1						14					
	G26-2(CA)(101)	35 x 30	7.29												
	M3-1	24 X 12	2.00												
	M6-2	21 X 15	2.19												
3-43	W20-1						1								
3-44	W1-1aR(25)	48 X 48	16.00	1						17.2					
	R26(CA)	12 X 18	1.50												
3-45	G77(CA)						1								
3-46	R3-18	30 X 30	6.25												MAST ARM MOUNTED
3-47	G92(CA)						1								
	G26-2(CA)														
	M3-1														
	M6-2														
3-48	G92(CA)	48 x 30	10.00	1						14					
	G26-2(CA)(101)	35 x 30	7.29												
	M3-1	24 X 12	2.00												
	M6-2	21 X 15	2.19												
3-49	R9-3a	18 X 18	2.25												BARRICADE MOUNTED
3-50	R3-1	36 X 36	9.00	1						14.5					
3-51	G77(CA)	108 X 90	67.50		1							20.5			
	R26(CA)	12 X 18	1.50												
3-52	R6-1R						1								
	R6-1L														
3-53	R6-1R	54 X 18	6.75	1					7.00						
	R6-1L	54 X 18	6.75												
3-54	M3-1						1								
	G26-2(CA)(101)														
	M3-4														
	G28-2(CA)(116)														
3-55	W4-1	48 X 48	16.00	1							16				
3-56	W11-2	30 X 30	6.25	1						14.0					
	W16-7pL	24 X 12	2.00												
3-57	W11-2	30 X 30	6.25	1						14.0					
	W16-7pL	24 X 12	2.00												
3-58	W3-3						1								
3-59	R2-1(35)						1								
3-60	R9-3a	18 X 18	2.25												BARRICADE MOUNTED
3-61	R3-18	30 X 30	6.25												MAST ARM MOUNTED
SHEET TOTAL				8	1	0	7	0					0	0	

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	243	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

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CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

HN 5/24/12
HN 4/19/12
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CALCULATED-DESIGNED BY CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR RAMSEY HISSEN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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SIGN QUANTITIES
SQ-6

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 07:55

ROADSIDE SIGN QUANTITIES

SIGN No.	SIGN CODE	PANEL SIZE	PANEL AREA	ROADSIDE SIGN		RELOCATE ROADSIDE SIGN	REMOVE ROADSIDE SIGN	RESET ROADSIDE SIGN	POST SIZE AND LENGTH (FT)(N)				METAL (RAIL MOUNTED SIGN)	SSBM	REMARKS
				ONE POST	TWO POST	ONE POST			4" x 4"	4" x 6"	6" x 6"	6" x 8"			
		IN x IN	SQFT	EA	EA	EA	EA	EA					LB	EA	
3-62	G7-1(CA)	84 X 24	14.00												MAST ARM MOUNTED
3-63	R9-3a	18 X 18	2.25												BARRICADE MOUNTED
3-64	R9-3a	18 X 18	2.25												BARRICADE MOUNTED
3-65	R91-3(CA)	30 X 42	8.75										160		BARRIER MOUNTED
3-66	R91-3(CA)	30 X 42	8.75										160		BARRIER MOUNTED
4-1	W12-2(14'-10")						1								
	W34A(CA)(1700 FT)														
4-2	M3-1	30 X 15	3.13	1							19.6				
	G26-2(CA)(101)	35 x 30	7.29												
	M3-4	30 X 15	3.13												
	G28-2(CA)(116)	35 X 31.25	7.60												
5-1	G20(CA)						1								
	W30C(CA)Mod														
5-2	R3-1					1				14.0					
	R20D-4(CA)														
5-3	CITY SIGN(BUS STOP)							1							
5-4	R2-1(35)	36 X 48	12.00	1						15.5					
	R26(CA)	12 X 18	1.50												
5-5	R3-7R	30 X 30	6.25	1					13.0						
5-6	R2-1(35)						1								
5-7	R3-7R	30 X 30	6.25	1					13.0						
5-8	R3-2					1									
5-9	R3-4	24 X 24	4.00	1					10.5						
5-10	R4-7	24 X 30	5.00	1					10.5						
5-11	R6-1R					1			7.0						
5-12	2-R6-1R					1			7.0						
5-13	R3-2	24 X 24	4.00	1					10.5						
5-14	R4-7						1								
5-15	R1-1							1							
5-16	R3-2							1							
5-17	W20-1					1				14.5					
5-18	G77(CA)														
5-19	G92(CA)						1								
	G26-2(CA)(101)														
	M3-3														
	M6-2														
5-20	R26(CA)	12 X 18	1.50											1	LIGHT POLE MOUNTED
SHEET TOTAL				7	0	5	5	3					320	1	

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	244	535

David Williams 4/19/12
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9-10-12
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REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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Caltrans

SIGN QUANTITIES
SQ-7

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	245	535

David Williams 4/19/12
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Roseville, CA 95661

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

ROADSIDE SIGN QUANTITIES

SIGN No.	SIGN CODE	PANEL SIZE	PANEL AREA	ROADSIDE SIGN		RELOCATE ROADSIDE SIGN	REMOVE ROADSIDE SIGN	RESET ROADSIDE SIGN	POST SIZE AND LENGTH (FT)(N)				METAL (RAIL MOUNTED SIGN)	SSBM	REMARKS
				ONE POST	TWO POST	ONE POST			4" x 4"	4" x 6"	6" x 6"	6" x 8"			
		IN x IN	SQFT	EA	EA	EA	EA	EA					LB	EA	
5-21	R26(CA)	12 X 18	1.50											1	LIGHT POLE MOUNTED
5-22	R26(CA)	12 X 18	1.50											1	LIGHT POLE MOUNTED
5-23	R26(CA)	12 X 18	1.50											1	LIGHT POLE MOUNTED
5-24	R26(CA)	12 X 18	1.50											1	LIGHT POLE MOUNTED
6-1	R26(CA)	12 X 18	1.50											1	LIGHT POLE MOUNTED
6-2	G8(CA)					1									
6-3	R2-1(35)						1								
6-4	R2-1(35)	36 X 48	12.00	1						15.5					
	R26(CA)	12 X 18	1.50												
6-5	R3-7R	30 X 30	6.25	1					13.0						
	R26(CA)	12 X 18	1.50												
6-6	R1-2	36 X 36 X 36	3.89	1					13.1						
6-7	R26(CA)	12 X 18	1.50											1	LIGHT POLE MOUNTED
6-8	R3-7R						1								
6-9	R26(CA)	12 X 18	1.50											1	LIGHT POLE MOUNTED
6-10	R3-2	24 x 24	2.59	1					14						
6-11	R26(CA)	12 X 18	1.50											1	LIGHT POLE MOUNTED
6-12	W73(CA)Mod						1								
6-13	R4-7	24 X 30	5.00	1					13.0						
SHEET TOTAL (SQ-8)				5	0	1	3	0					0	8	
SHEET TOTAL (SQ-7)				7	0	5	5	3					320	1	
SHEET TOTAL (SQ-6)				8	1	0	7	0					0	0	
SHEET TOTAL (SQ-5)				8	0	1	10	0					320	0	
SHEET TOTAL (SQ-4)				7	4	1	11	0					0	0	
SHEET TOTAL (SQ-3)				10	3	0	5	0					160	0	
SHEET TOTAL (SQ-2)				11	0	0	8	0					160	0	
SHEET TOTAL (SQ-1)				9	1	0	7	0					320	0	
GRAND TOTAL				65	9	8	56	3					1280	9	

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

SIGN QUANTITIES
SQ-8

REVISED BY	DATE REVISED
HN	5/24/12
HN	4/19/12

HUEY NHAM — DAVID WILLIAMS
CALCULATED-DESIGNED BY — CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR — RAMSEY HISSEN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 07:55

SIGN PANEL QUANTITIES (CONTRACTOR-FURNISHED)

SIGN CODE	PANEL SIZE	PANEL AREA	NUMBER OF SIGNS	BACKGROUND		LEGEND		GRAFFITI FILM	FURNISHED SINGLE SHEET ALUMINUM SIGN				DESCRIPTION
									UNFRAMED		FRAMED		
				SHEETING COLOR	RETRO-REF LECTIVE ASTM TYPE	SHEETING COLOR	RETRO-REF LECTIVE ASTM TYPE	PREMIUM	0.063"	0.080"	0.063"	0.080"	
	IN x IN	SQFT	EA						SQFT	SQFT	SQFT	SQFT	
R1-2	36 X 36 X 36	31.14	1	WHITE	III	RED	IV	X	31.14				YIELD
R2-1(35)	36 X 48	12.00	3	WHITE	III	BLACK	-	X	36.00				SPEED LIMIT
R3-1	36 X 36	9.00	2	WHITE	III	BLACK/RED	-/IV	X	18.00				NO RIGHT TURN
R3-2	36 X 36	9.00	1	WHITE	III	BLACK/RED	-/IV	X	9.00				NO LEFT TURN
R3-7R	30 X 30	6.25	3	WHITE	III	BLACK	-	X	18.75				RIGHT LANE MUST TURN RIGHT
R3-18	30 X 30	6.25	4	WHITE	III	BLACK/RED	-/IV	X	25.00				NO U-TURN/ NO LEFT TURN
R4-7	24 X 30	5.00	4	WHITE	III	BLACK	-	X	20.00				KEEP RIGHT
R5-1	48 X 48	16.00	4	WHITE	III	RED	IV	X		64.00			DO NOT ENTER
R5-1a	42 X 30	8.75	4	RED	IV	WHITE	III	X	35.00				WRONG WAY
R5-10a	30 X 36	7.50	3	WHITE	III	BLACK	-	X	22.50				PED/BICYCLES/CYCLES PROHIBITED
R5-10c	24 X 12	2.00	3	WHITE	III	BLACK	-	X	6.00				PED PROHIBITED
R6-1(L/R)	54 X 18	6.75	4/4	WHITE	III	BLACK	-	X		54.00			DIRECTIONAL ARROW AUXILIARY
R9-3a	18 x 18	2.25	8	WHITE	III	BLACK	-	X	18.00				NO PED CROSSING
R26(CA)	12 x 18	1.50	14	WHITE	III	RED	III	X	21.00				NO PARKING
R61(CA)Mod	72 X 30	15.00	2	WHITE	III	BLACK	-	X			30.00		ADVANCE INTERSECTION LANE CONTROL
R61-21(CA)	48 X 36	12.00	2	WHITE	III	BLACK	-	X	24.00				ADVANCE INTERSECTION LANE CONTROL
R91-3(CA)	30 X 42	8.75	8	WHITE	III	BLACK	-	X		70.00			HOV LANE
W1-1aR(25)	48 X 48	16.00	2	YELLOW	VII	BLACK	-	X		32.00			RIGHT TURN WITH ADVISORY SPEED
W3-3	36 X 36	9.00	4	YELLOW	VII	BLACK	-	X	36.00				SIGNAL AHEAD
W4-1	48 X 48	16.00	4	YELLOW	VII	BLACK	-	X		64.00			MERGE
W4-14R(20)	36 X 48	12.00	2	YELLOW	VII	BLACK	-	X	24.00				270-DEGREE LOOP WITH ADVISORY SPEED
W11-2	30 X 30	6.25	4	YELLOW	VII	BLACK	-	X	25.00				PEDESTRIAN CROSSING
W13-2(30)	48 X 60	20.00	2	YELLOW	VII	BLACK	-	X		40.00			ADVISORY EXIT SPEED
W16-7pL	24 X 12	2.00	4	YELLOW	VII	BLACK	-	X	8.00				LEFT DIAGONAL ARROW
M3-1	30 X 15	3.13	7	WHITE	III	BLACK	-	X	21.88				NORTH
M3-2	30 X 15	3.13	1	GREEN	III	WHITE	III	X	3.13				EAST
M3-3	30 X 15	3.13	7	WHITE	III	BLACK	-	X	21.88				SOUTH
M3-4	30 X 15	3.13	1	GREEN	III	WHITE	III	X	3.13				WEST
M6-2	21 X 15	2.19	12	WHITE	III	BLACK	-	X	26.25				DIRECTIONAL ARROW AUXILIARY
D9-3a	30 X 30	6.25	2	BLUE	III	WHITE	III	X	12.50				TRAILER CAMPING
D9-9	30 X 30	6.25	2	BLUE	III	WHITE	III	X	12.50				LODGING
G7-1(CA)	84 X 24	14.00	2	GREEN	III	WHITE	III	X				28.00	DESTINATION AND STREET NAME
G8(CA)Mod	108 X 36	27.00	1	GREEN	III	WHITE	III	X				27.00	DESTINATION AND STREET NAME WITH ARROW
G8(CA)	90 X 30	18.75	1	GREEN	III	WHITE	III	X				18.75	DESTINATION WITH ARROW
G8-1(CA)	108 X 24	18.00	3	GREEN	III	WHITE	III	X				54.00	DESTINATION AND STREET NAME WITH ARROW
G26-2(CA)(101)	35 X 30	7.29	14	WHITE	III	BLACK	-	X	102.08				HWY 101
G28-2(CA)(116)	35 X 30	7.29	2	GREEN	III	WHITE	III	X	14.58				HWY 116
G33-1(CA)	30 X 8	1.67	3	BLUE	III	WHITE	III	X	5.00				DIRECTIONAL ARROW AUXILIARY
G77(CA)	108 X 90	67.50	2	GREEN	III	WHITE	III	X				135.00	INTERCHANGE GUIDE
G78(CA)	108 X 54	40.50	2	GREEN	III	WHITE	III	X				81.00	INTERCHANGE GUIDE
G84-3(CA)(476)	48 X 60	20.00	2	GREEN	III	WHITE	III	X		40.00			EXIT RAMP
G92(CA)	48 X 30	10.00	12	GREEN	III	WHITE	III	X		120.00			FREEWAY ENTRANCE
TOTAL			N/A	N/A	N/A	N/A	N/A	N/A	600.32	484.00	30.00	343.75	

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	246	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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11 ENGLISH STREET
PETALUMA, CA 94952

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HN	4/19/12

HUEY NHAM — DAVID WILLIAMS — CALCULATED-DESIGNED BY — CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

SIGN QUANTITIES
SQ-9

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11 ENGLISH STREET
PETALUMA, CA 94952

STRUCTURAL SECTION QUANTITIES

STATION/LOCATION	HMA TYPE A (N)	HMA (OGFC) (N)	RHMA-G (N)	LCB	CLASS 2 AB	CLASS 4 AS	HMA TYPE A	HMA (OGFC)	RHMA-G	LIQUID ASPHALT (PRIME COAT)	TACK COAT
	CF	CF	CF	CY	CY	CY	TON	TON	TON	TON	TON
"ONF" 32+85 TO 43+95	21358				1285.4	1384	1602			4.69	1.88
"ONN" 40+00 TO 47+96	9988				601.1	647	749			2.19	0.88
"ML" 394+30 TO 397+10 R+	4479	995	1991	240		479	336	75	149		
"ML" 397+10 TO 402+80 R+	3629	807	1613	194		388	272	60	121	0.71	0.28
"ML" 402+80 TO 417+95 R+	19999	4444	8888	1070		2140	1500	333	667	3.90	1.56
"ONNL" 50+00 TO 58+00	11280				678.9	731	846			2.48	0.99
"ORH" 24+33 TO 31+15	30125				1896.8	2678	2259			5.29	2.12
"ORH" 31+15 TO 35+11	15237						1143				1.07
"OSN" 85+55 TO 93+04	8856				533.0	574	664			1.94	0.78
"OSF" 60+36 TO 71+20	22960				1381.9	1488	1722			5.04	2.02
"OSNL" 75+90 TO 83+90	10996				661.8	713	825			2.41	0.97
"ORH" 13+05 TO 21+12	34673				2183.1	3082	2600			6.09	2.44
"ORH" 11+78 TO 13+05	5667						425				0.40
"ML" 389+25 TO 404+33 L+	18511	4114	8227	990		1981	1388	309	617	3.61	1.45
"ML" 404+33 TO 413+20 L+	10616	2359	4718	568		1136	796	177	354	2.07	0.83
"ML" 395+81 TO 413+50	78095	15583	31165				5857	1169	2337		5.47
DRIVEWAYS	2051				151.9		154			0.36	0.14
HMA LINED DITCH	9247						694			2.46	
DIG-OUT AREAS	1100						83				0.04
OGAC OVERLAY ("ML" LINE)		36265						2720			12.74
MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)					814						
TEMPORARY PAVEMENT							3654				
TOTAL	318866	64567	56602	3062	10188	17421	27569	4842	4245	43	36

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IRRIGATION CROSSOVER

SHEET No.	NUMBER	STATION		SIDE		CONDUIT TYPE ③	WATER LINE CROSSOVER (N)	SPRINKLER CONTROL CROSSOVER (N)
		LINE	STATION	R+	L+	8 INCH LF	3 INCH	2 INCH
L-2	1	OSN	91+88.04	X	X	47	X	X
L-2	2	OSNL	77+36.60	X	X	46	X	X
L-2	3	OSF	61+35.00	X	X	111	X	X
L-2	4	OSF	66+75.25	X	X	40	X	X
L-2,L-4	5	OSF	70+13.81		X	488	X	X
L-2	6	ORH	16+90.00	X	X	97	X	X
L-2	7	ORH	21+60.00	X	X	123	X	X
L-2	8	ORH	21+71.28	X	X	108	X	X
L-3	9	ONNL	56+94.47	X	X	59	X	X
L-3	10	ONN	40+97.96	X	X	50	X	X
L-3,L-4	11	ONN	43+20.75	X		537	X	X
L-3	12	ONF	43+21.53	X	X	143	X	X
L-3	13	ORH	23+81.43	X	X	125	X	X
L-3	14	ORH	28+92.90	X	X	94	X	X
L-5	15	ORH	14+92.36	X	X	106	X	X
L-6	16	ORH	30+25.16		X	335	X	X
TOTAL						2509		

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X - DENOTES REQUIREMENT

CONDUIT TYPE:

(APPLICABLE WHEN CIRCLED BELOW AND SHOWN UNDER THE "CONDUIT TYPE" COLUMN HEADING)

1 BITUMINOUS COATED CORRUGATED STEEL PIPE (0.064 INCH THICK)
2 CORRUGATED STEEL PIPE (0.064 INCH THICK)
③ CORRUGATED HIGH DENSITY POLYETHYLENE PIPE
4 ALTERNATIVE CONDUIT
5 WELDED STEEL PIPE

METAL BEAM GUARD RAILING

SHEET No.	STATION	LAYOUT TYPE (N)	MBGR	VEGETATION CONTROL (MINOR CONCRETE)	ALT IN-LINE TERM SYSTEM	TRANSITION RAILING (TYPE WB)	END ANCHOR ASSEMBLY (TYPE SFT)
			LF	SQYD	EA	EA	EA
L-2	"OSN" 90+37.33 L+ TO 90+89.88 L+	12A	53	61.4	1	1	
L-2	"OSF" 65+11.02 L+ TO 65+35.82 L+	16A	25	37.8	1		1
L-3	"ONF" 39+70.82 R+ TO 40+11.81 R+	16A	50	48.9	1		1
L-3	"ONN" 42+17.25 R+ TO 42+95.77 R+	12A	79	72.9	1	1	
TOTAL			207	221	4	2	2

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IMPORTED TOPSOIL

SHEET No.	IMPORTED TOPSOIL
	CY
PP-2	34
TOTAL	34

COLD PLANE ASPHALT CONCRETE PAVEMENT

STATION	COLD PLANE ASPHALT CONCRETE PAVEMENT (N)	COLD PLANE ASPHALT CONCRETE PAVEMENT
	SQFT	SQYD
"ML" 376+40 TO 376+70	3360	373
"ML"424+54 TO 424+92	3136	348
"ORH" 11+78 TO 13+05	11334	1259
"ORH" 31+15 TO 35+11	30474	3386
TOTAL		5367

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SUMMARY OF QUANTITIES

Q-1

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HN	4/19/12

HUEY NHAM — DAVID WILLIAMS
CALCULATED-DESIGNED BY — CHECKED BY
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	248	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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MISCELLANEOUS CONCRETE CONSTRUCTION

SHEET No.	STATION/LOCATION	CURB TYPE A1-6 (N)	CURB TYPE A2-6 (N)	CURB TYPE A3-6 (N)	CURB TYPE B4 (N)	PCC (0.33') SIDEWALK (N)	PCC (0.50') DRIVEWAY (N)	HMA (0.50') (TYPE A) DRIVEWAY (N)	ISLAND PAVING (N)	PCC (0.33') MEDIUM BROOM FINISH (N)	MINOR CONCRETE (MEDIUM BROOM FINISH)	MINOR CONCRETE (CURB, GUTTER, SIDEWALK AND DRIVEWAY)	MINOR CONCRETE (ISLAND PAVING)	CLASS 2 AB*
		LF	LF	LF	LF	SQFT	SQFT	SQFT	SQFT	SQFT	CY	CY	CY	CY
L-5	"ORH" 11+99.92 TO "ORH" 13+85.87 R+		229.9			740.5	1037.1	566.0				41.8		53.9
L-2, 5	"ORH" 14+28.06 TO "ORH" 19+78.56 R+	42.6	592.5			2911.1	215.5	1114.0				75.6		99.2
L-2, 5	"ORH" 11+83.54 TO "ORH" 17+11.44 L+	50.5	408.7			2027.9	940.0	195.3				67.6		62.2
L-5	"ORH" 11+85.98 TO "ORH" 14+70.00 Cen			577.0					624.0			6.0	11.6	
L-2, 5	"ORH" 14+70.06 TO "ORH" 17+40.70 Cen			563.9					1289.9			5.8	23.9	
L-2, 3	"ORH" 18+41.42 TO "ORH" 27+50.57 Cen			1824.9					5934.7			18.9	109.9	
L-6	"ORH"34+43.99 TO "ORH" 35+04.47 Cen			133.6					175.5			1.4	3.3	
L-2	"OSF"/"OSNL" ISLANDS			295.2		284.7			1637.4			6.5	30.3	5.3
L-2	"ORH" 18+62.47 TO "ORH" 21+38.29 L+	25.4	282.2			1505.3						35.7		27.9
L-2	"ORH" 19+96.12 TO "ORH" 20+87.41 R+		90.6			495.0						11.4		9.2
L-2	"ORH"/"OSN" ISLANDS			131.7					652.0			1.4	12.1	
L-3	"ORH" 24+09.16 TO "ORH" 27+14.89 R+	23.5	313.8			1671.7						39.6		31.0
L-3	"ORH" 24+59.38 TO "ORH" 25+86.67 L+		127.3			687.8						15.9		12.7
L-3	"ORH"/"ONN" ISLANDS			112.9					516.2			1.2	9.6	
L-3, 6	"ORH" 26+01.01 TO "ORH" 35+23.57 L+	265.7	785.2			3398.8	908.7	2227.0				111.6		162.3
L-3	"ONF"/"ONNL" ISLANDS			319.2		313.7			1951.3			7.1	36.1	5.8
L-3, 6	"ORH" 28+73.60 TO "ORH" 34+82.06 R+	37.1	671.8			3633.6						85.0		67.3
L-6	"ORH" 34+93.68 TO 35+26.68 R+ ISLANDS			122.0					271.1			1.3	5.0	
L-1, 2	GORE "OSN" LINE				219.0					3760.3	46.0	12.5		69.6
L-1, 3	GORE "ONF" LINE									2483.0	30.3	0.0		46.0
L-3	GORE "ONNL" LINE									373.9	4.6	0.0		6.9
L-2	GORE "OSNL" "OSF" LINES									483.5	5.9	0.0		9.0
L-2	GORE "OSNL" LINE									394.7	4.8	0.0		7.3
L-2	GORE "OSF" LINE									2325.0	28.4	0.0		43.1
L-3, 4	GORE "ONN" LINE				248.6					4236.6	51.8	14.2		78.5
L-3	GORE "ONF" "ONNL" LINES									475.6	5.8	0.0		8.8
L-3	"ONN" 41+94.20 TO 43+12.29 R+	41.4				431.2						6.3		8.0
	TOTAL	486	3502	4080	468	18101	3101	4102	13052	14533	178	567	242	814

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* SEE STRUCTURAL SECTION QUANTITIES TABLE FOR QUANTITY TOTAL.

SUMMARY OF QUANTITIES

Q-2

REVISED BY	DATE REVISED
HN	5/24/12
HN	4/19/12

HUEY NHAM — DAVID WILLIAMS
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David Williams 4/19/12
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9-10-12
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REMOVE FENCE

STATION	REMOVE FENCE
	LF
"OSN" 83+35.80 L+ TO "ORH" 17+63.2 R+	1144.8
"OSN" 84+53.50 L+ TO "OSN" 87+49.20 L+	333.7
"ORH" 15+29.20 L+ TO "ML" 413+17.14 L+	1575.4
"ONF" 36+09.1 R+ TO "ONF" 39+40.0 R+	331.1
"ORH" 30+55.20 R+ TO "ORH" 34+40.70 R+	382.6
"ORH" 29+74.69 R+ TO "ORH" 30+16.69 R+	46.2
"ORH" 28+33.20 L+ TO "ONN" 48+00.10 R+	1023.7
TOTAL	4837.5

REMOVE GATE

STATION	REMOVE GATE
	EA
"ONF" 36+09 R+	2
"ORH" 30+17 R+	1
TOTAL	3

REMOVE CONCRETE BARRIER (TYPE K)

STATION	REMOVE CONCRETE BARRIER (TYPE K)
	LF
"ML" 393+15 R+ TO "ML" 396+11 R+	300
"ML" 411+50 L+ TO "ML" 417+30 L+	580
TOTAL	880

REMOVE METAL BEAM GUARD RAILING

STATION	REMOVE MBGR
	LF
"OSN" 84+20± R+	100
"OSNL" 75+10± L+	65
"OSNL"74+10± L+	61
"ORH" 20+40± R+	152
"ORH" 20+70± L+	152
"OSF" 73+05± L+	66
"ORH" 24+90± R+	151
"ORH" 24+85± L+	104
"ONN" 41+15± L+	227
"ONNL"58+80± R+	69
TOTAL	1147

RELOCATE HYDRANT

STATION	RELOCATE HYDRANT
	EA
"ORH" 14+49.04 L+	1
"ORH" 34+97.79 R+	1
TOTAL	2

REMOVE CONCRETE PAVEMENT AND BASE

STATION	REMOVE CONCRETE PAVEMENT AND BASE
	SQYD
"ORH" 28+25 TO 30+27 L+	187
"ORH" 30+62 TO 31+19 L+	81
"ORH" 33+16 TO 33+55 L+	14
TOTAL	282

TREATED WOOD WASTE

ITEM	TREATED WOOD WASTE
	LB
REMOVE ROADSIDE SIGN	5251
REMOVE MBGR	11404
TOTAL	16655

EARTHWORK SUMMARY

LOCATION	ROADWAY EXCAVATION	ROADWAY EXCAVATION (TYPE Y-2) (ADL)	EMBANKMENT (N)	IMPORTED BORROW
	CY	CY	CY	CY
"ORH" LINE WEST	2043		26714	31091
"ORH" LINE EAST	811		34202	34000
"SURCHARGE EXCAVATION WEST"	1667		1667	1667
"SURCHARGE EXCAVATION EAST"	1667		1667	1667
"ONF" LINE	4252		10352	9708
"ONN" LINE	2838		10138	9675
"ONNL" LINE	2291	525	766	167
"OSF" LINE	18483		11806	13300
"OSN" LINE	1944		8869	8367
"OSNL" LINE	3274		308	-470
"ORH" LINE DIG-OUT AREAS	41			
"ML" LINE		330		
TOTAL	39311	855	106488	109172

ADL AERIALLY DEPOSITED LEAD
(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

ADJUST FRAME AND COVER

STATION	ADJUST FRAME AND COVER TO GRADE	COMMENTS
	EA	
35.3′ L+ "ORH" 12+12.84	1	WATER VALVE
54.0′ L+ "ORH" 14+50.35	1	WATER VALVE
18.6′ R+ "ORH" 14+87.93	1	SSMH
25.6 R+ "ORH" 34+28.50	1	SSMH
TOTAL	4	

SUMMARY OF QUANTITIES

Q-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
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CALCULATED-DESIGNED BY: DAVID WILLIAMS
CHECKED BY: HUEY NHAM
REVISED BY: HN — DATE REVISED: 4/19/12
REVISED BY: HN — DATE REVISED: 5/24/12

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 07:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	250	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
David A. Williams
No. C58697
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

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PETALUMA, CA 94952

CHAIN LINK FENCE QUANTITIES

SHEET	STATION	CHAIN LINK FENCE (TYPE CL-6)	CHAIN LINK FENCE (TYPE CL-4)
		LF	LF
L-1	"OSN" 83+31.5 TO "OSN" 86+85.0	362	
L-2	"OSN" 89+85.7 TO "ORH" 18+62.4	270	
L-2	"ORH" 17+31 TO "ORH" 17+59	36	
L-2 TO L-5	"ORH" 15+60.0 TO "OSF" 70+16.9	1087	
L-3	"ORH" 28+33.0 TO "ONN" 43+80.4	408	
L-3	"ONF" 39+37 TO 39+40	16	
L-3 TO L-4	"ONN" 45+94.6 TO "ONN" 48+00.1	215	
L-5	"ORH" 14+35 TO "ORH" 14+52		34
L-6	"ORH" 29+74.72 TO "ORH" 30+16.69	46	
L-6	"ORH" 30+55.2 TO "ONN" 34+70.7	462	
TOTAL		2902	34(*)

(*) - SEE BRIDGE PLANS FOR ADDITIONAL QUANTITIES

PLACE HMA (MISCELLANEOUS AREA)

STATION	HMA DRIVEWAY	HMA LINED DITCH
	SQYD	SQYD
"ORH" 13+05 L+ TO "ORH" 13+54 L+	21.7	
"ORH" 12+06 R+ TO "ORH" 12+84 R+	44.7	
"ORH" 13+39 R+ TO "ORH" 13+68 R+	18.2	
"ORH" 14+66 R+ TO "ORH" 15+16 R+	123.8	
"ORH" 30+25 L+ TO "ORH" 30+66 L+	66.1	
"ORH" 31+16 L+ TO "ORH" 32+56 L+	155.7	
"ORH" 32+77 L+ TO "ORH" 33+18 L+	25.7	
"OSN" 80+00 L+ TO "ORH" 16+57 R+		1693.8
"ONN" 48+60 R+ TO "ORH" 28+51 L+		1419.6
SUBTOTAL	455.9	3113.4
TOTAL	3569	

CONCRETE BARRIER

SHEET	STATION	TYPE 60	TYPE 60C		TYPE 60D (Mod)		TYPE 60F	TYPE 60P
			60C	60C (Mod)	60D (Mod)	60D (Mod 1)		
		LF	LF	LF	LF	LF	LF	LF
L-1	"OSN" 81+00 L+ TO 86+84.97 L+			583.3				
L-1	"OSN" 86+84.68 R+ TO 88+01.48 R+			116.8				
L1	"OSN" 88+01.48 R+ TO 88+80.00 R+					78.5		
L-2	"OSN" 88+80.00 R+ TO 90+31.84 R+				151.8			
L-2	"OSN" 91+60.18 R+ TO 92+17.56 R+	50.5						12
L-2	"ML" 402+29.00 CL TO 404+57.00 CL						228	
L-2	"OSF" 60+89.37 R+ TO "OSNL" 77+99.03 R+		481.3					24
L-3	"ONNL" 56+09.35 L+ TO "ONF" 43+07.95 L+		502.0					24
L-3	"ONN" 40+81.94 L+ TO 43+22.32 L+	234.4						12
L-3	"ONN" 44+09.19 L+ TO 44+20.00 L+				10.8			
L-3	"ONN" 44+20.00 L+ TO 44+96.84 L+					76.8		
L-3 & L-4	"ONN" 45+94.05 R+ TO 48+60.25 R+			266.6				
SUBTOTAL			983.3	966.7	162.6	155.3		
TOTAL		284.9	1950		318		228	72

TEMPORARY FENCE (TYPE CL-6)

SHEET	STATION	Temp FENCE (TYPE CL-6)
		LF
C-11	"OSN" 86+84.4 L+ TO "OSN" 89+79.9 L+	294
	"ORH" 17+31.1 R+ TO "ORH" 18+62.4 R+	132
	"ONN" 43+80.4 R+ TO "ONN" 45+94.2 R+	213
TOTAL		639

8' CHAIN LINK GATE (TYPE CL-6)

SHEET	STATION	EA
L-1	"OSN" 86+85	1
L-2	"OSN" 89+85	1
L-3	"ONN" 43+85	2
L-3	"ONN" 45+95	1
L-6	"ORH" 30+16.69	1
TOTAL		6

SURVEY MONUMENT (TYPE A)

SHEET	STATION	EA
L-2	"ORH" 17+15 L+	1
L-3	"ORH" 24+20 R+	1
L-3	"ORH" 28+70 R+	1
L-5	"ORH" 11+95 L+	1
L-5	"ORH" 14+65 R+	1
L-6	"ORH" 34+80 R+	1
TOTAL		6

SUMMARY OF QUANTITIES

Q-4

REVISED BY	DATE REVISED
HN	5/24/12
HN	4/19/12

HUEY NHAM
DAVID WILLIAMS
CALCULATED-DESIGNED BY
CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR
RAMSEY HISSEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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INDEX TO PLANS

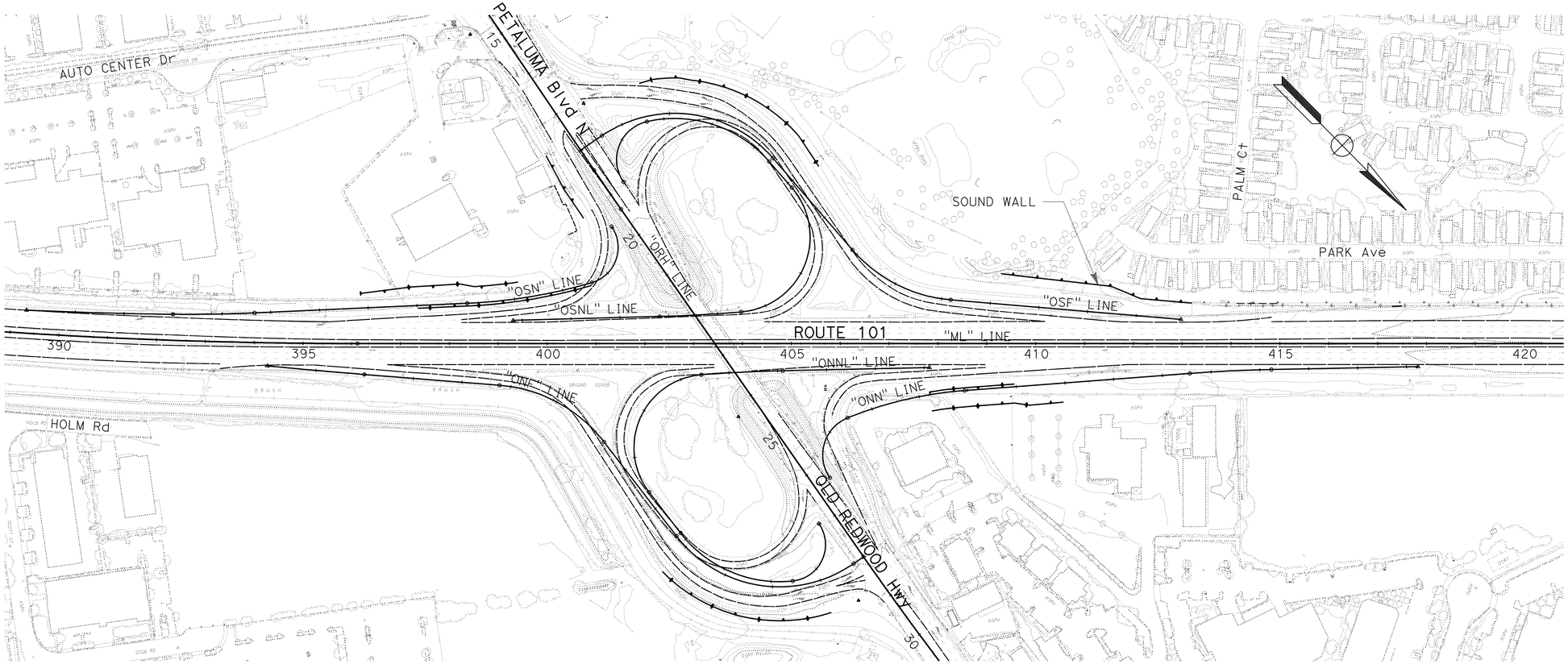
SHEET No.	TITLE
SW-1	GENERAL PLAN
SW-2	SOUND WALL PLAN AND PROFILE
SW-3	SOUND WALL DETAILS
SW-4	SOUND WALL DETAILS - SOUND WALL ON BARRIER AESTHETIC DETAILS SHEET 1 OF 2
SW-5	SOUND WALL DETAILS - SOUND WALL ON BARRIER AESTHETIC DETAILS SHEET 2 OF 2

ABBREVIATION:

CMU CONCRETE MASONRY UNIT

SOUND WALL QUANTITIES

ITEM DESCRIPTION	UNIT	SOUND WALL
16" CAST-IN-DRILLED-HOLE CONCRETE PILING (SOUND WALL)	LF	1632
SOUND WALL (MASONRY BLOCK)	SQFT	4310
CONCRETE BARRIER (TYPE 736SV)	LF	398



SOUND WALL KEY MAP
GENERAL PLAN

NO SCALE

SW-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN

CALCULATED-DESIGNED BY: HUEY NHAM
CHECKED BY: DAVID WILLIAMS

REVISED BY: HN 4/19/12
REVISED BY: HN 5/24/12
DATE REVISED

LAST REVISION 04-19-12
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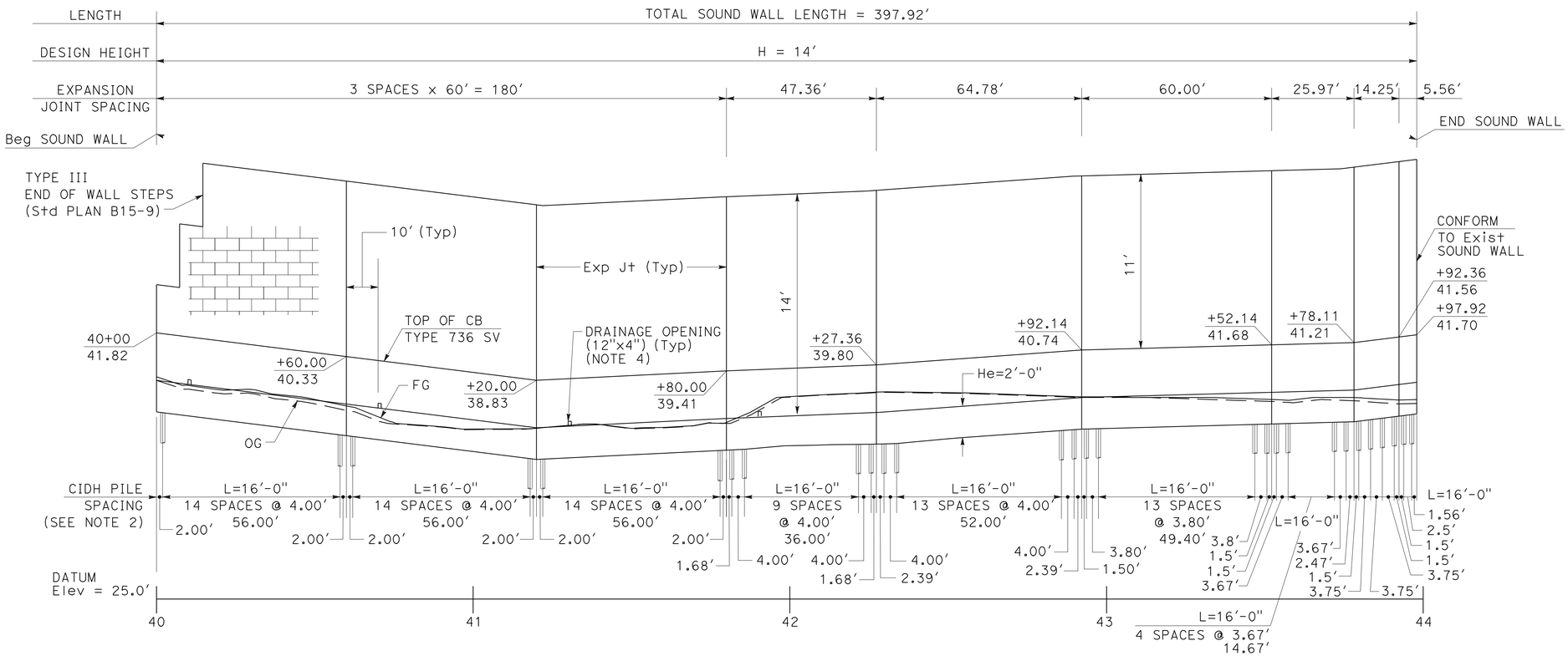
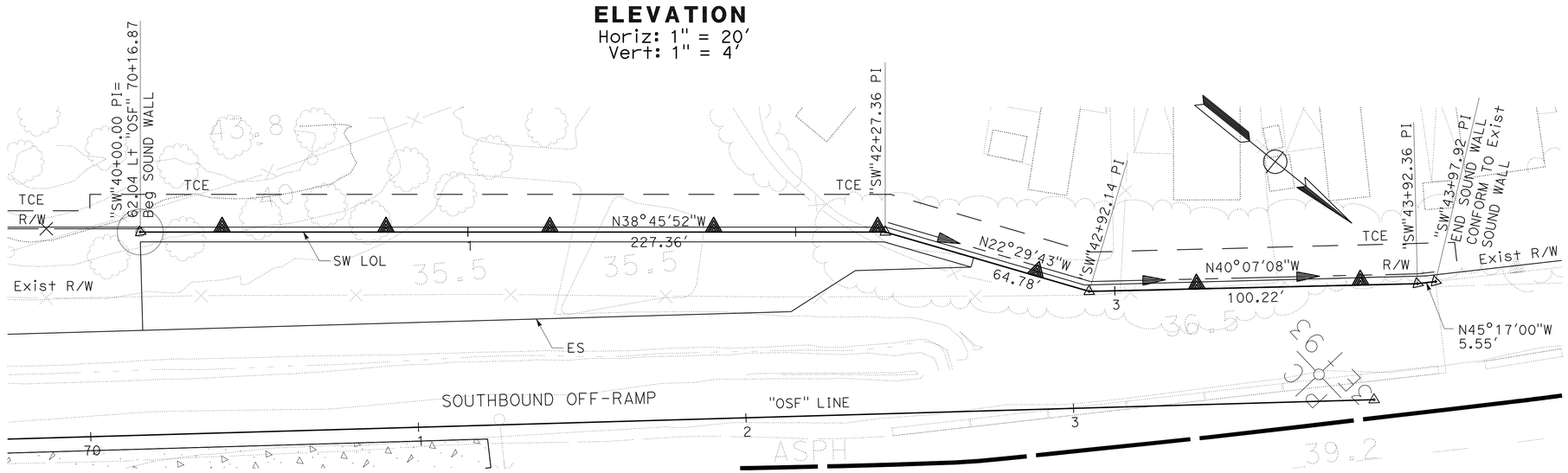


ELEVATION
Horiz: 1" = 20'
Vert: 1" = 4'

PILE DATA TABLE
ø = 30"
CASE 2 BARRIER SECTION CONDITION



PLAN
SCALE: 1" = 20'

NOTES:

1. SOUND WALL HEIGHT ON CONCRETE BARRIER IS MEASURED PERPENDICULAR TO ES.
2. SPACING IS MEASURED ALONG "SW" LOL.
3. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
4. INSTALL DRAINAGE OPENINGS FROM STATION 40+00 TO 42+27.36.

SOUND WALL PLAN
SCALE: AS SHOWN

SW-2

REVISED BY	DATE REVISED
HN	5/24/12
HN	4/19/12

HUEY NHAM — DAVID WILLIAMS
CALCULATED-DESIGNED BY — CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR — RAMSEY HISSEN

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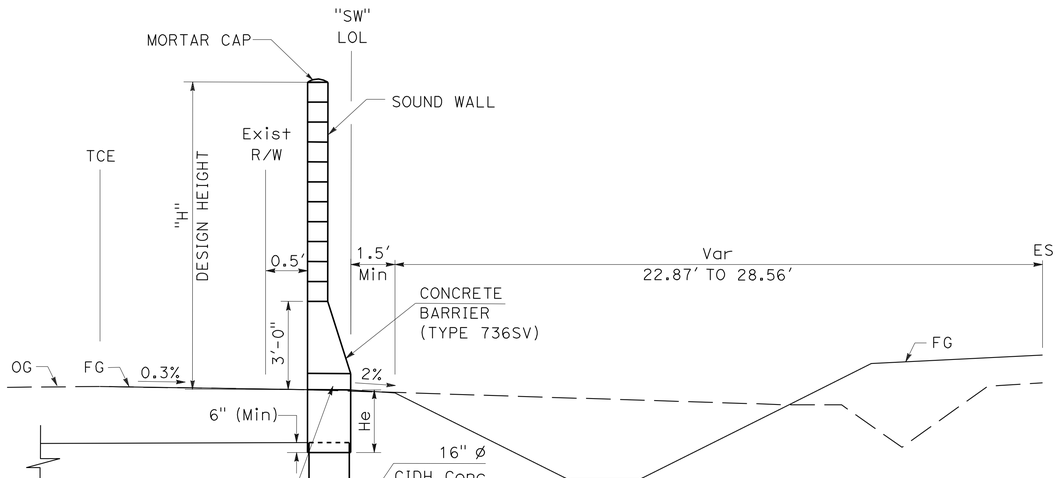
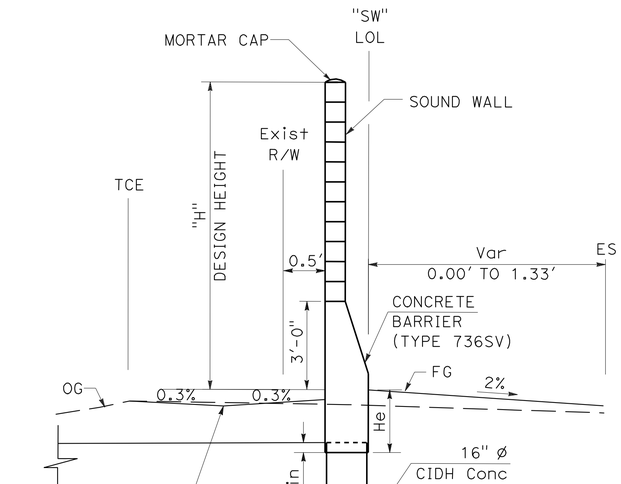
NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. SEE DRAINAGE PLANS FOR DRAINAGE DETAILS.
3. SEE SW-2 FOR THE EMBEDDED HEIGHT (He) OF CONCRETE BARRIER.



SOUND WALL
TYPICAL SECTION
"SW" 40+00.00 TO 42+27.36



SOUND WALL
TYPICAL SECTION
"SW" 42+27.36 TO 43+97.92

SOUND WALL DETAILS
NO SCALE

SW-3

HN	5/24/12		
HN	4/19/12		
REVISED BY	DATE REVISED		
HUEY NHAM	DAVID WILLIAMS		
CALCULATED-DESIGNED BY	CHECKED BY		
CONSULTANT FUNCTIONAL SUPERVISOR	RAMSEY HISSEN		

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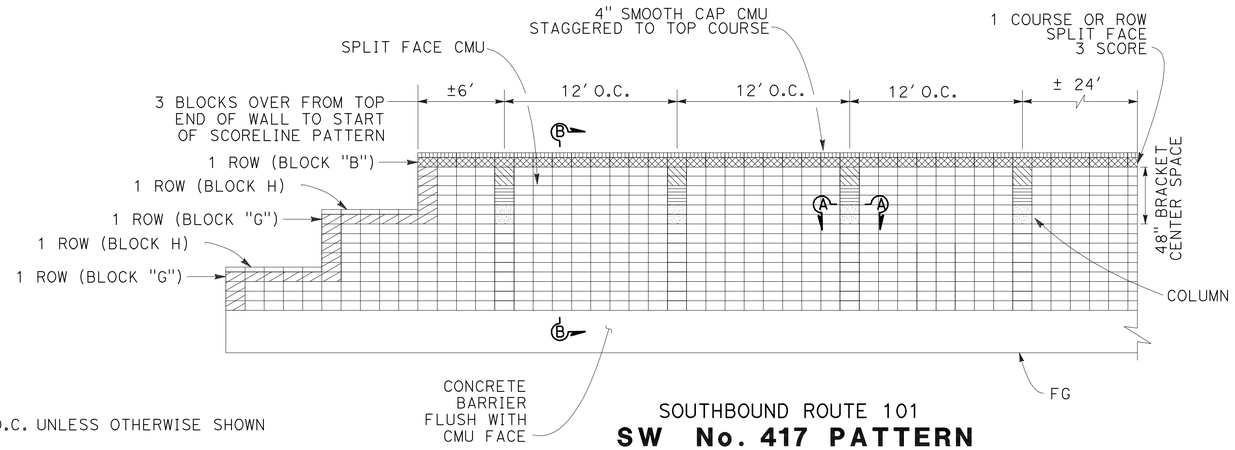
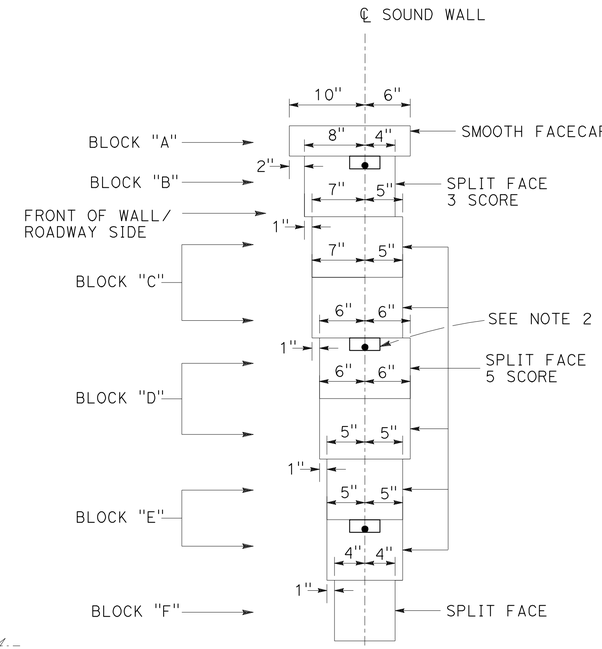


SOUTHBOUND ROUTE 101
SW No. 417 PATTERN

NOTES:

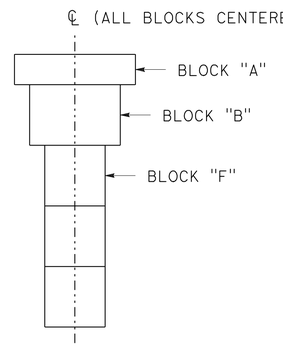
1. COLUMNS ARE 24' O.C. UNLESS OTHERWISE SHOWN ON THE PLANS.
2. ADDITIONAL BOND BEAM #5 IN 4" x 2" DEEP OPENING. LENGTH = 7'-6" CENTERED ABOUT ℄ OF COLUMN.
3. INTERNAL CELLS OF THE CMU BLOCKS SHALL BE ON THE CENTER LINE OF THE WALL, NOT THE CENTER OF THE BLOCKS IF POSSIBLE.
4. FOR DETAILS NOT SHOWN ON SECTION A-A, SEE STANDARD PLANS B15-6, B15-7, AND B15-8.
5. BLOCK DIMENSIONS SHOWN ARE NOMINAL SIZES, SEE SW-5 FOR ACTUAL DIMENSIONS.



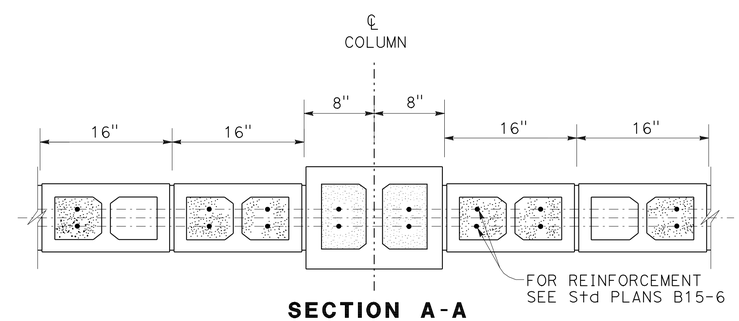
TYPICAL SOUNDWALL SECTIONS AT COLUMNS

LEGEND:

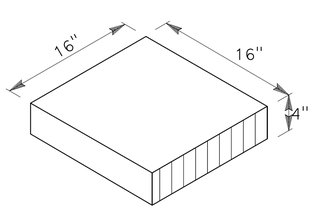
- BLOCK "A"
- BLOCK "B"
- BLOCK "C"
- BLOCK "D"
- BLOCK "E"
- BLOCK "F" AND "H"
- BLOCK "G"



SECTION B-B

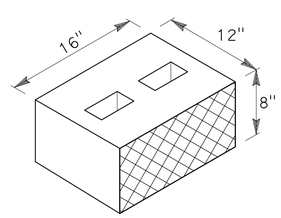


SECTION A-A



COLOR: DARK GRAY
(SMOOTH FACECAP)
ON BOTH SIDES

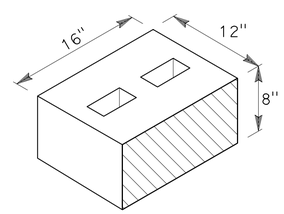
BLOCK "A"



COLOR: GRAY
(SPLIT FACE 3 SCORE)
ON BOTH SIDES

BLOCK "B"

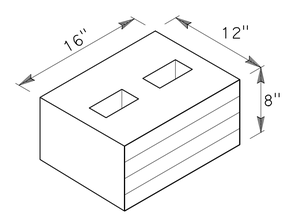
* CELLS WIDTH
TO MATCH 8" BLOCK



COLOR: GRAY
(SPLIT FACE 5 SCORE)
ON BOTH SIDES

BLOCK "C"

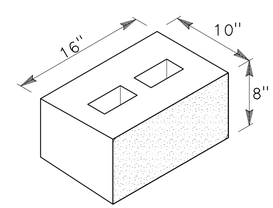
* CELLS WIDTH
TO MATCH 8" BLOCK



COLOR: GRAY
(SPLIT FACE 5 SCORE)
ON BOTH SIDES

BLOCK "D"

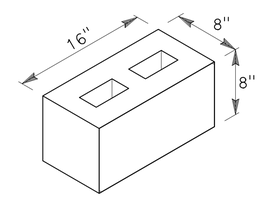
* CELLS WIDTH
TO MATCH 8" BLOCK



COLOR: GRAY
(SPLIT FACE 5 SCORE)
ON BOTH SIDES

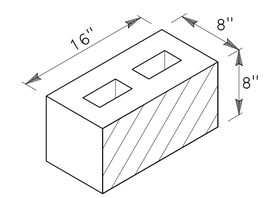
BLOCK "E"

* CELLS WIDTH
TO MATCH 8" BLOCK



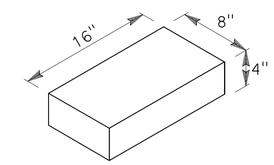
COLOR: GOLD
(SPLIT FACE)
ON BOTH SIDES

BLOCK "F"



COLOR: GRAY
(SPLIT FACE 3 SCORE)
ON BOTH SIDES

BLOCK "G"



COLOR: DARK GRAY
(SMOOTH FACECAP)
ON BOTH SIDES

BLOCK "H"

APPROVED FOR SOUND WALL AESTHETICS ONLY

SOUND WALL DETAILS
SOUND WALL AESTHETICS

NO SCALE

SW-4

REVISED BY	DATE REVISED
HN	5/24/12
HN	4/19/12

HUEY NHAM — DAVID WILLIAMS
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04	Son	101	7.1/8.1	255	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER David A. Williams No. C58697 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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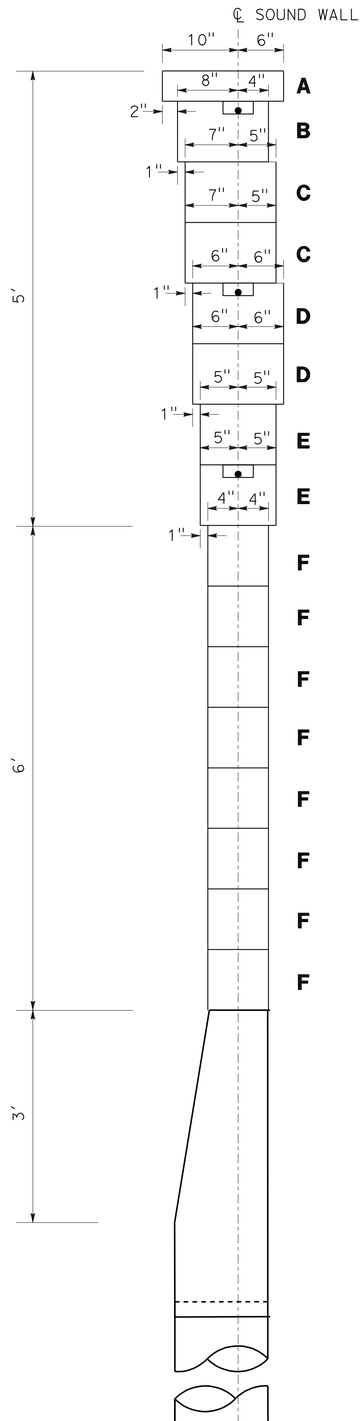
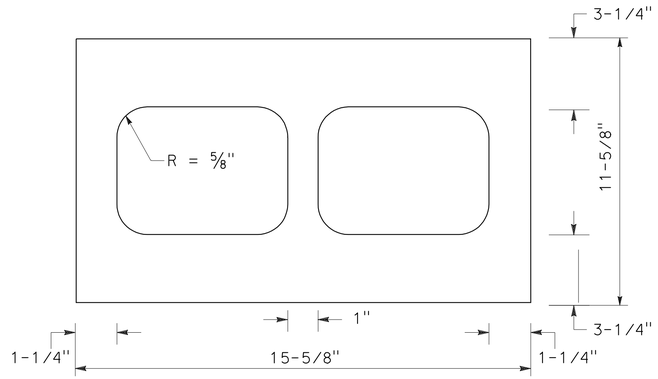
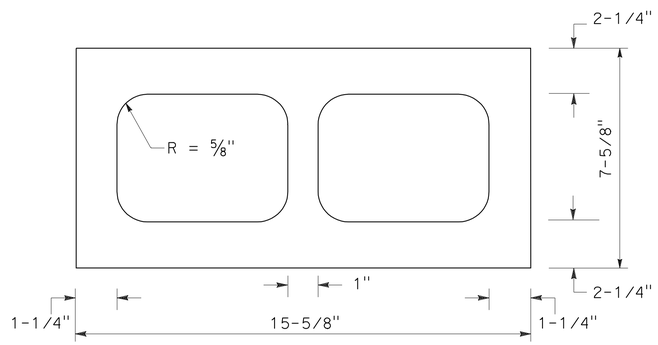
CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952



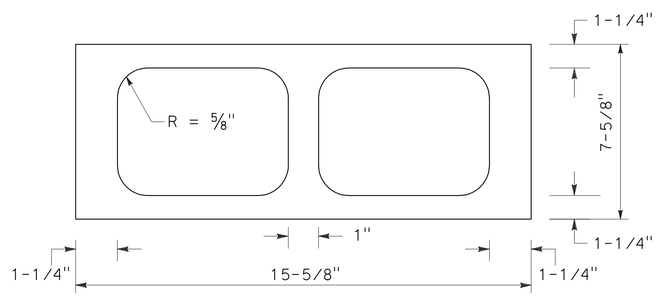
TYPICAL SOUNDWALL SECTION AT COLUMNS



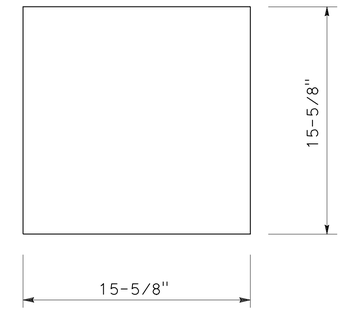
BLOCK "D"
12-INCH UNIT CONFIGURATIONS



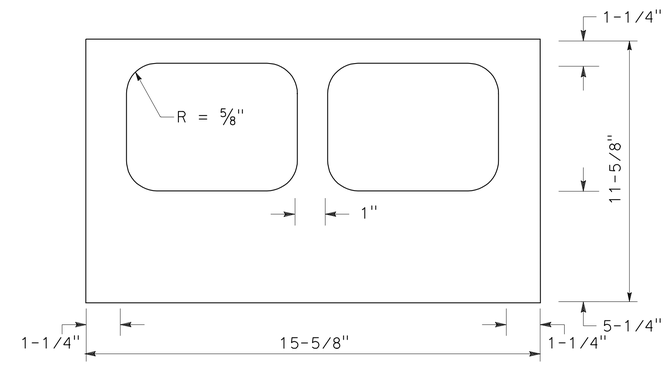
BLOCK "E"
10-INCH UNIT CONFIGURATIONS



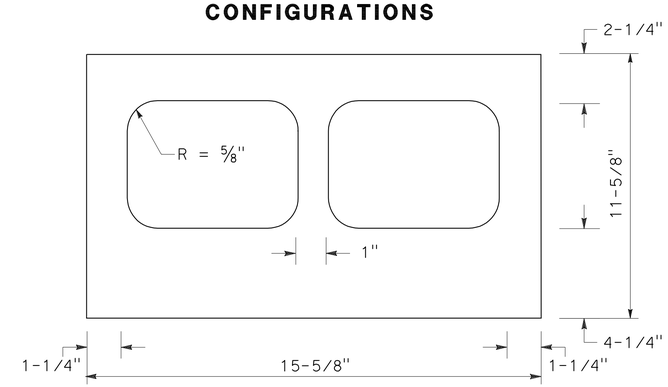
BLOCK "F"
8-INCH UNIT CONFIGURATIONS



BLOCK "A"
WALL CAP



BLOCK "B"
12-INCH UNIT CONFIGURATIONS



BLOCK "C"
12-INCH UNIT CONFIGURATIONS

NOTE:

SEE SHEET SW-4 FOR BLOCK AESTHETICS TREATMENTS.

SOUND WALL DETAILS
SOUND WALL AESTHETICS

NO SCALE

SW-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: HUEY NHAM
CHECKED BY: DAVID WILLIAMS
REVISED BY: HN — DATE REVISED: 4/19/12
REVISED BY: HN — DATE REVISED: 5/24/12

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 08:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	256	535

LICENSED LANDSCAPE ARCHITECT DATE 4/19/12

PLANS APPROVAL DATE 9-10-12

LICENSED LANDSCAPE ARCHITECT — ALEXANDER GUNST — No. 3295 — 05-31-12 Exp. — STATE OF CALIFORNIA

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CITY OF PETALUMA
11 ENGLISH STREET
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ABBREVIATIONS:

AMEND	AMENDMENT	Max	MAXIMUM
B & B	BALLED AND BURLAPPED	Min	MINIMUM
Dia	DIAMETER	NCN	NO COMMON NAME
EA	EACH	No.	NUMBER
LB	POUND	Pkt	PACKET
Oz	OUNCE	PLT ESTB	PLANT ESTABLISHMENT
Ft	FOOT/FEET	Pvmt	PAVEMENT
SQFT	SQUARE FEET	R/W	RIGHT OF WAY
SQYD	SQUARE YARD	SF	STATE FURNISHED
CF	CUBIC FEET	TRVD	TRAVELLED
CY	CUBIC YARD		

PLANT LIST AND PLANTING SPECIFICATIONS

PLANT GROUP	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY EACH	HOLE SIZE (INCH) Dia	HOLE SIZE (INCH) DEPTH	BASIN TYPE	IRON SULFATE	SOIL AMEND ①	COMMERCIAL ① FERTILIZER PLANTING Pkt	COMMERCIAL ① FERTILIZER PLT ESTB	BASIN MULCH ①	STAKING	PLANTING LIMITS MINIMUM DISTANCE (Ft) FROM TRVD WAY	PVMT	FENCE	WALL	PAVED DITCH	EARTH DITCH	ON CENTER (Ft)	REMARKS
A	1	⊘	COTONEASTER 'LOWFAST'	LOWFAST COTONEASTER	NO. 1	25	24"	18"	1	-	0.2 CY	1	0.08 LB	0.03 CY	-	5	-	-	-	-	-	-	SHRUB, SPACING AS SHOWN ON PLAN
A	2	●	PARTHENOCISSUS TRICUSPIDATA	BOSTON IVY	NO. 1	25	24"	18"	3	-	0.06 CY	1	0.05 LB	0.03 CY	④	-	-	-	-	3	5	10	VINE
A	3		PENNISETUM ALOPECUROIDES 'MOUDRY'	BLACK FOUNTAIN GRASS	NO. 1	21	24"	18"	1	-	0.06 CY	1	0.05 LB	0.03 CY	-	-	-	-	-	3	5	-	SHRUB
B	4	⊕	CORREA 'IVORY BELLS'	AUSTRALIAN FUCHSIA	NO. 5	36	30"	24"	1	-	0.2 CY	2	0.08 LB	0.05 CY	-	5	-	-	-	-	-	-	SHRUB
B	5	△	KNIPHOFIA UVARIA	RED-HOT POKER (YELLOW)	NO. 5	4	30"	24"	1	-	0.2 CY	2	0.08 LB	0.05 CY	-	-	-	-	-	3	5	-	SHRUB, SPACING AS SHOWN ON PLAN
B	6	⊗	LAVANDULA DENTATA 'HIDCOTE GIANT'	HIDCOTE GIANT FRENCH LAVENDER	NO. 5	15	30"	24"	1	-	0.2 CY	2	0.08 LB	0.05 CY	-	5	-	-	-	-	-	-	SHRUB, SPACING AS SHOWN ON PLAN
B	7	◎	SALVIA CLEVELANDII	CLEVELAND SAGE	NO. 5	21	30"	24"	1	-	0.2 CY	2	0.08 LB	0.05 CY	-	5	-	-	-	-	-	-	SHRUB, SPACING AS SHOWN ON PLAN
B	8	⊕	WESTRINGIA FRUTICOSA	COAST ROSEMARY	NO. 5	21	30"	24"	1	-	0.2 CY	2	0.08 LB	0.05 CY	-	-	-	-	-	-	-	-	SHRUB, SPACING AS SHOWN ON PLAN
U	9	●	LAGERSTROEMIA 'TUSKEGEE'	TUSKEGEE CREPE MYRTLE	NO. 15	6	48"	30"	2	-	0.6 CY	3	0.1 LB	0.12 CY	④⑥	-	-	-	-	-	-	-	STANDARD TREE

LEGEND

MULCH

IMPORTED TOPSOIL

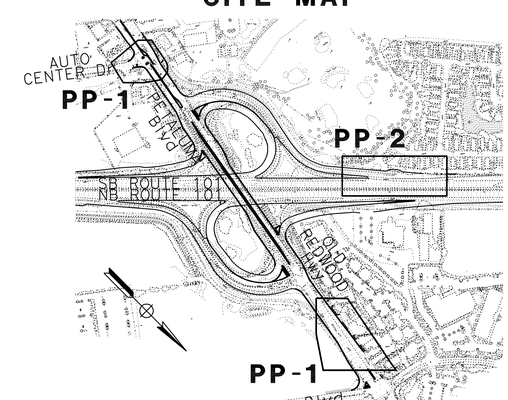
APPLICABLE WHEN CIRCLED BELOW:

① — QUANTITIES SHOWN ARE "PER PLANT" UNLESS SHOWN AS SQFT OR SQYD APPLICATION RATES.
2 — SUFFICIENT TO RECEIVE ROOT BALL.
3 — DOES NOT APPLY TO MULCH AREAS.
④ — AS SHOWN ON PLANS.
5 — UNLESS OTHERWISE SHOWN ON PLANS.
⑥ — REQUIRED.
7 — SEE DETAIL.
8 — SEE SPECIAL PROVISIONS.
⑨ — THE PLANT ESTABLISHMENT AREA LIMITS SHALL BE FROM SOUND WALL TO EDGE OF CONCRETE DITCH FOR THE LENGTH OF SOUND WALL AND FROM BACK OF CONCRETE TO R/W ALONG CITY OWNED STREETS.

NOTE:

UNDERLINED PORTIONS OF BOTANICAL NAME INDICATE ABBREVIATIONS USED ON PLANTING PLANS.

SITE MAP



PLANT LIST
NO SCALE
PL-1

APPROVED FOR PLANTING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN

CALCULATED-DESIGNED BY: ALEXANDER GUNST — CHECKED BY: WILLIAM KANAMOTO

REVISED BY: HN — DATE REVISED: 5/24/12; HN — 4/19/12

LAST REVISION 04-19-12 — DATE PLOTTED => 13-SEP-2012 — TIME PLOTTED => 08:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	257	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
David A. Williams
No. C58697
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

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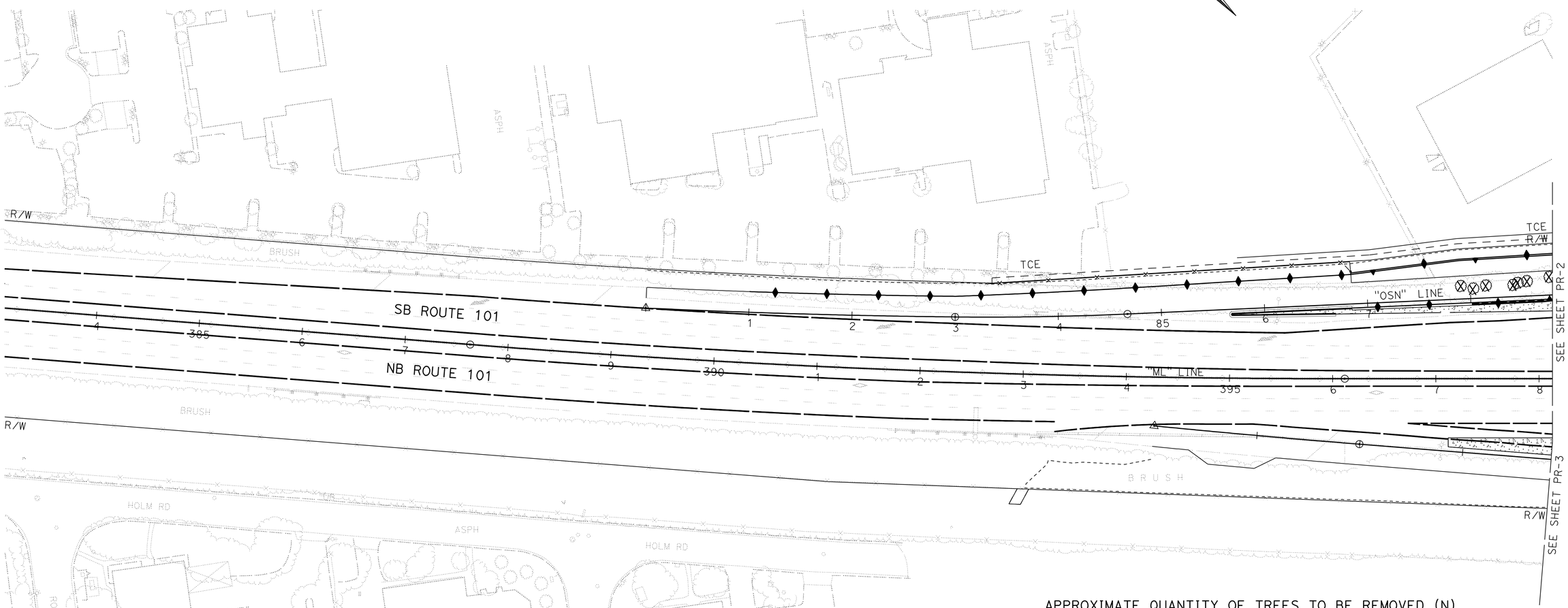
NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGEND

X REMOVE TREE

TREE TO REMAIN (PROTECT IN PLACE)



APPROXIMATE QUANTITY OF TREES TO BE REMOVED (N)

TREE TYPE	TREE SIZE			
	4"-12" (EA)	12"-18" (EA)	18"-24" (EA)	>24" (EA)
REDWOOD	58	56	12	4
EUCALYPTUS	10	2	2	1
WILLOW	10	0	0	0
SUBTOTAL	78	58	14	5
TOTAL	155			

(N)-NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

PLANT REMOVAL PLAN

SCALE: 1" = 50'

PR-1

APPROVED FOR PLANT REMOVAL WORK ONLY

HUEY NHAM	REVISED BY
5/24/12	DATE REVISED
DAVID WILLIAMS	CALCULATED-DESIGNED BY
RAMSEY HISSEN	CHECKED BY
HN	REVISED BY
4/19/12	DATE REVISED

CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-19-12

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TIME PLOTTED => 08:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
David A. Williams
No. C58697
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

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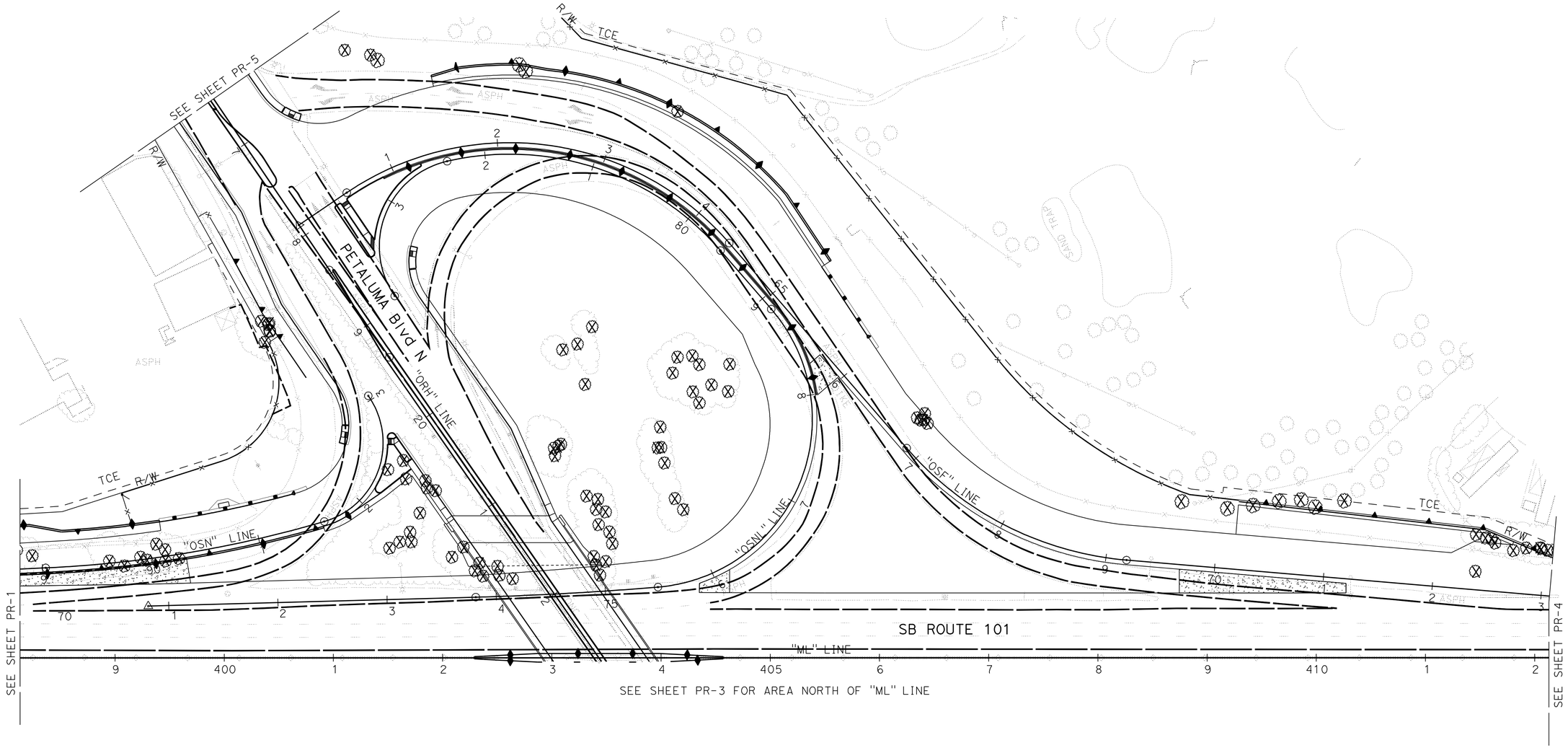

FOR NOTES AND LEGEND, SEE SHEET PR-1

PLANT REMOVAL PLAN

SCALE: 1" = 50'

PR-2

APPROVED FOR PLANT REMOVAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: HUEY NHAM
CHECKED BY: DAVID WILLIAMS
REVISED BY: HN
DATE REVISED: 4/19/12
REVISED BY: HN
DATE REVISED: 5/24/12

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
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David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
David A. Williams
No. C58697
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

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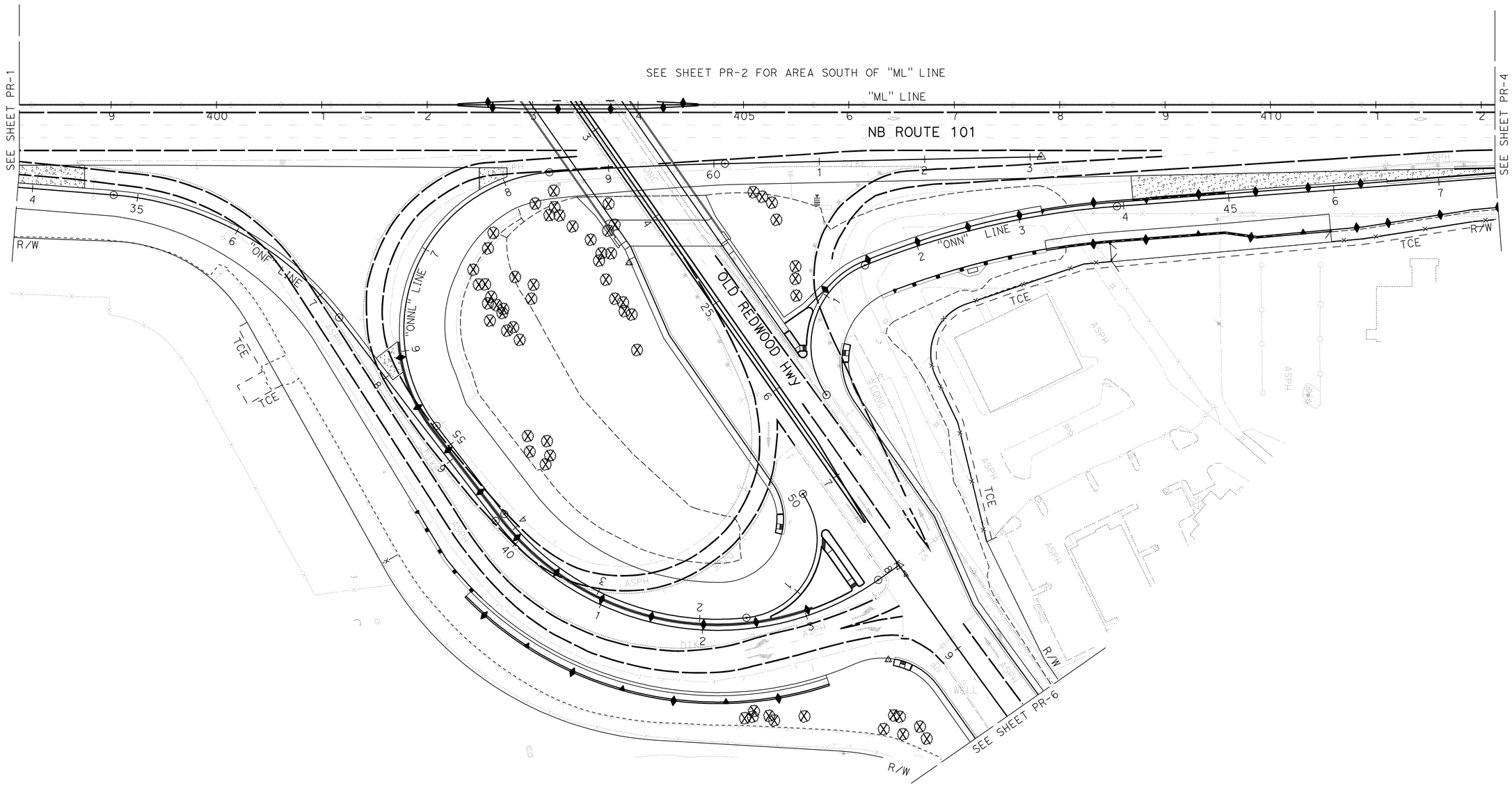

FOR NOTES AND LEGEND, SEE SHEET PR-1

PLANT REMOVAL PLAN

SCALE: 1" = 50'

PR-3

APPROVED FOR PLANT REMOVAL WORK ONLY

REVISED BY	HN
DATE REVISED	5/24/12
REVISED BY	HN
DATE REVISED	4/19/12
HUEY NHAM	
DAVID WILLIAMS	
CALCULATED-DESIGNED BY	
CHECKED BY	
CONSULTANT FUNCTIONAL SUPERVISOR	
RAMSEY HISSEN	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 08:46

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David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
David A. Williams
No. C58697
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

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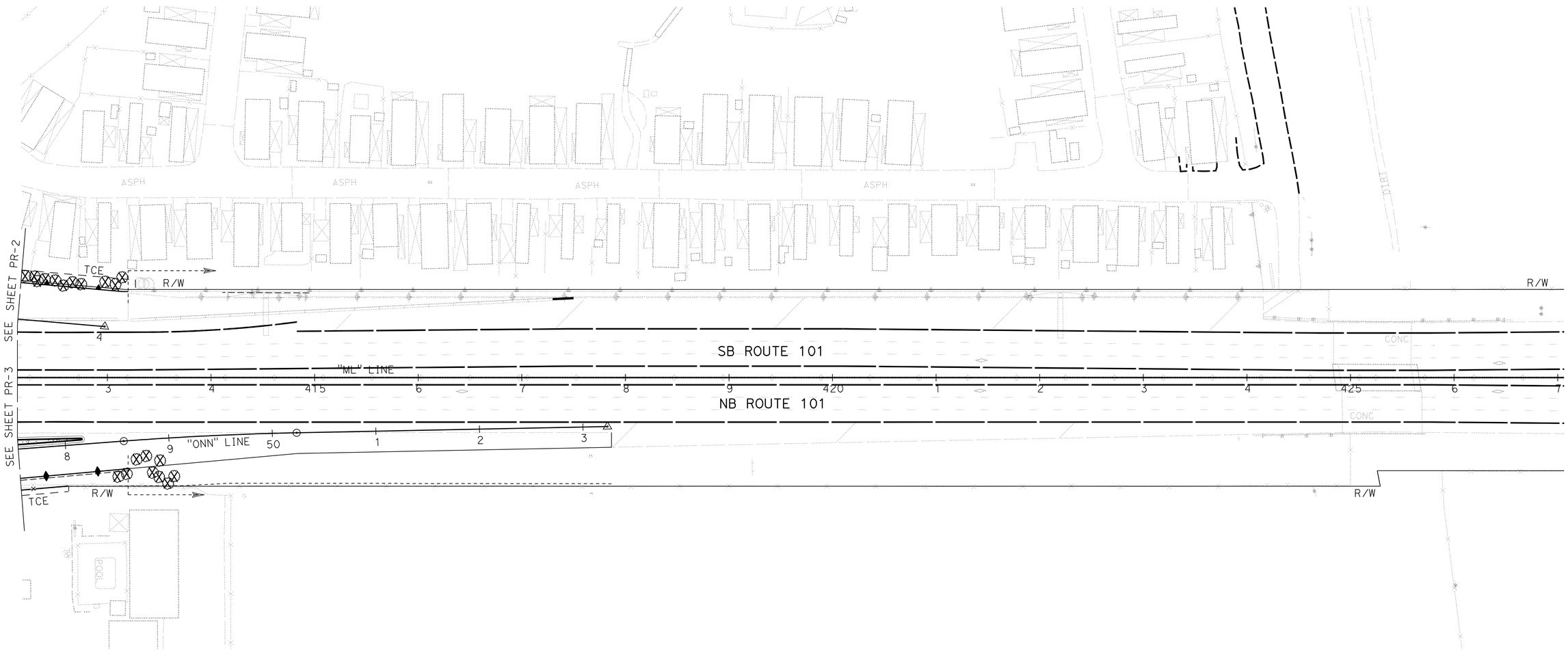
PETALUMA, CA 94952



FOR NOTES AND LEGEND, SEE SHEET PR-1

APPROVED FOR PLANT REMOVAL WORK ONLY

PLANT REMOVAL PLAN

SCALE: 1" = 50'

PR-4

HUEY NHAM	HN	HN	HN
DAVID WILLIAMS	4/19/12	4/19/12	5/24/12
CALCULATED-DESIGNED BY	REVISED BY	REVISED BY	REVISED BY
CHECKED BY	DATE REVISED	DATE REVISED	DATE REVISED

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 08:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
David A. Williams
No. C58697
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

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11 ENGLISH STREET
PETALUMA, CA 94952

FOR NOTES AND LEGEND, SEE SHEET PR-1

APPROVED FOR PLANT REMOVAL WORK ONLY

PLANT REMOVAL PLAN

SCALE: 1" = 50'

PR-5

REVISED BY	DATE REVISED
HN	5/24/12
HN	4/19/12

HUEY NHAM
DAVID WILLIAMS
CALCULATED-DESIGNED BY
CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR
RAMSEY HISSEN

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	262	535

David Williams 4/19/12
REGISTERED CIVIL ENGINEER DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
David A. Williams
No. C58697
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

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PETALUMA, CA 94952

APPROVED FOR PLANT REMOVAL WORK ONLY

PLANT REMOVAL PLAN

SCALE: 1" = 50'

PR-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: HUEY NHAM
CHECKED BY: DAVID WILLIAMS
REVISED BY: HN
DATE REVISED: 4/19/12
REVISED BY: HN
DATE REVISED: 5/24/12

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 09:02

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04	Son	101	7.1/8.1	263	535

LICENSED LANDSCAPE ARCHITECT DATE 4/19/12

9-10-12
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
ALEXANDER GUNST
No. 3295
05-31-14
Exp.
STATE OF CALIFORNIA

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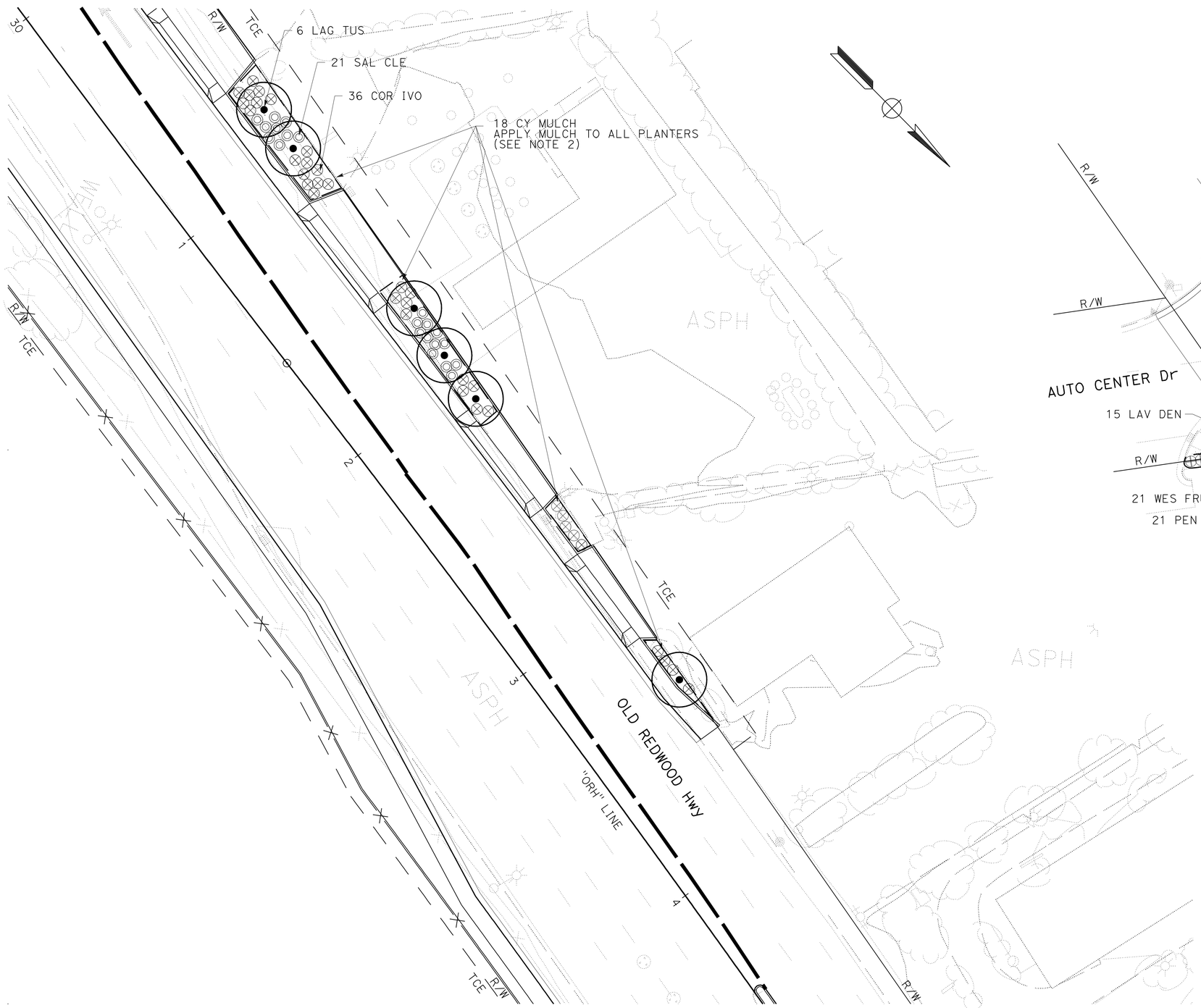
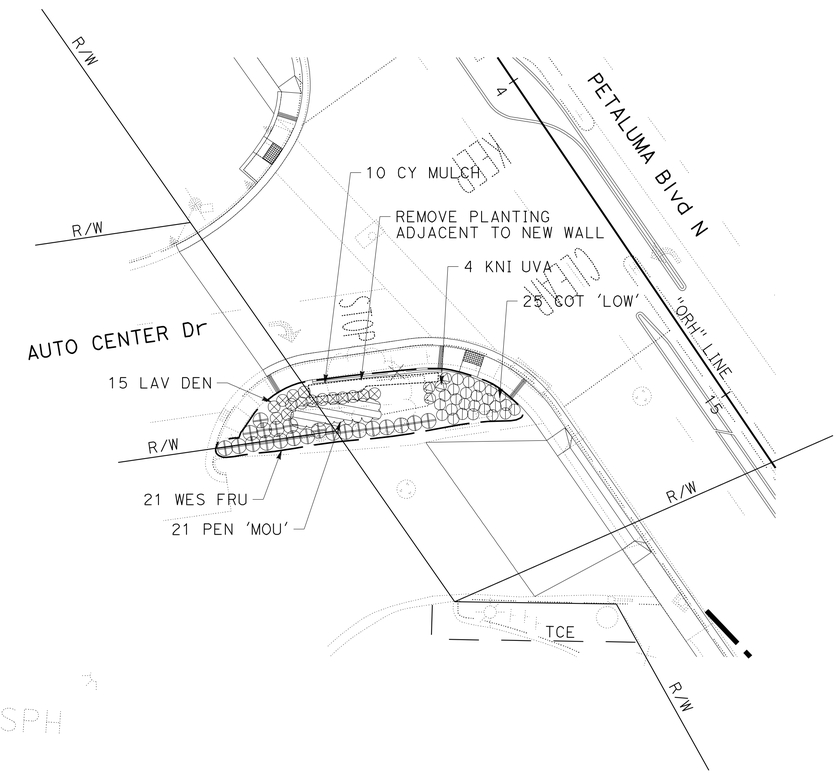
CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. APPLY WEED GERMINATION TO ALL PLANTERS ON OLD REDWOOD HIGHWAY PRIOR TO PLANTING.





PLANTING PLAN

SCALE: 1" = 20'

PP-1

APPROVED FOR PLANTING WORK ONLY

HN	5/24/12		
HN	4/19/12		
REVISED BY	DATE REVISED		
ALEXANDER GUNST	WILLIAM KANAMOTO		
CALCULATED-DESIGNED BY	CHECKED BY		
CONSULTANT FUNCTIONAL SUPERVISOR	RAMSEY HISSEN		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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LICENSED LANDSCAPE ARCHITECT 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
ALEXANDER GUNST
No. 3295
05-31-14
Exp.
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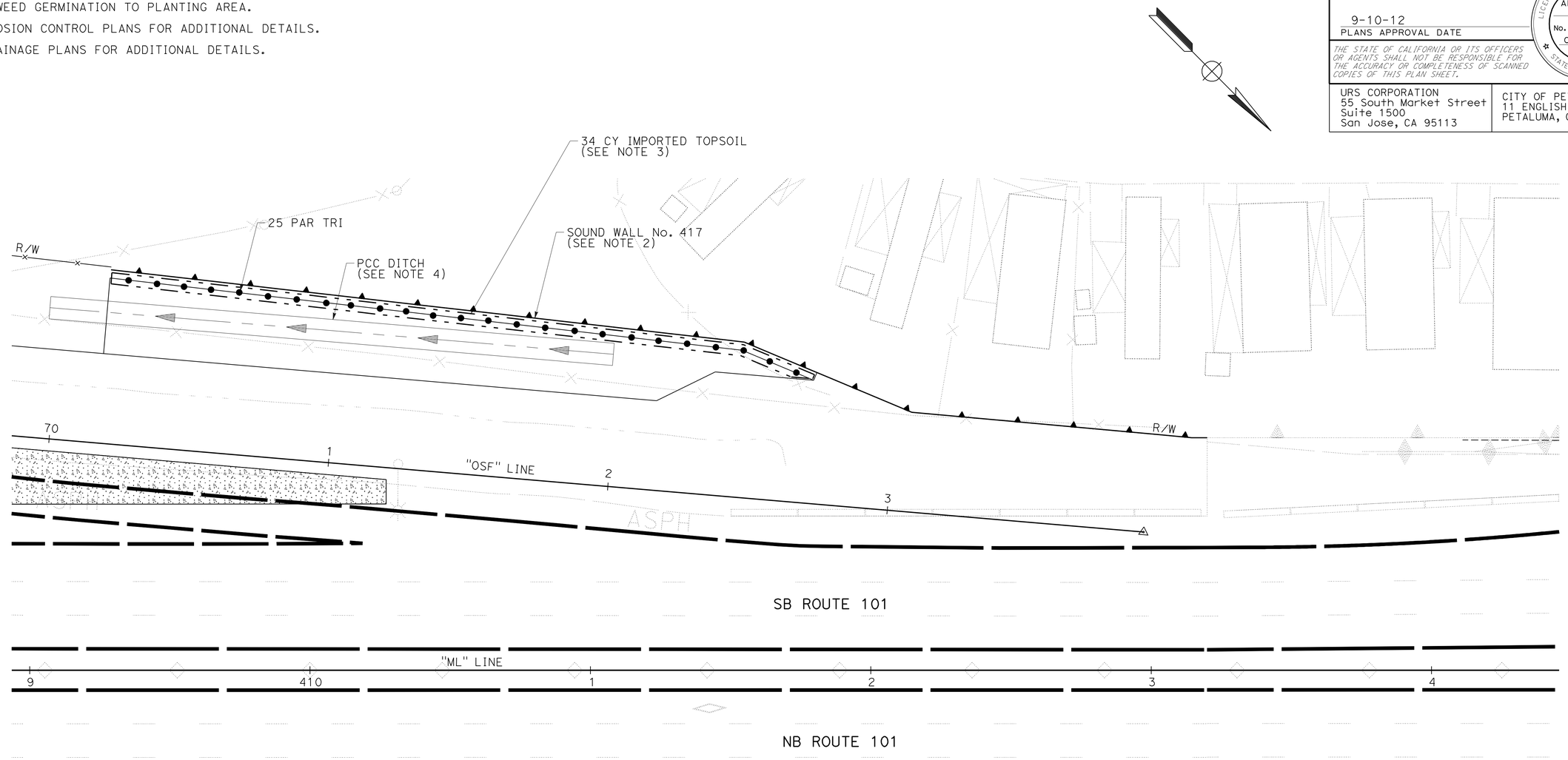
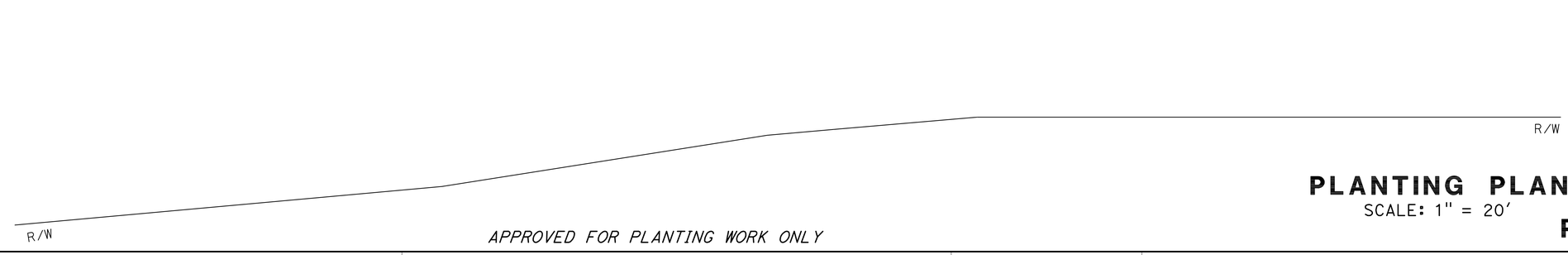
NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. APPLY WEED GERMINATION TO PLANTING AREA.
3. SEE EROSION CONTROL PLANS FOR ADDITIONAL DETAILS.
4. SEE DRAINAGE PLANS FOR ADDITIONAL DETAILS.





PLANTING PLAN

SCALE: 1" = 20'

PP-2

APPROVED FOR PLANTING WORK ONLY

ALEXANDER GUNST	HN	5/24/12
WILLIAM KANAMOTO	HN	4/19/12
REVISED BY	DATE REVISED	
CALCULATED-DESIGNED BY		
CHECKED BY		
CONSULTANT FUNCTIONAL SUPERVISOR		
RAMSEY HISSEN		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	265	535

LICENSED LANDSCAPE ARCHITECT 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT ALEXANDER GUNST No. 3295 05-31-14 Exp. STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

URS CORPORATION
55 South Market Street
Suite 1500
San Jose, CA 95113

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

NOTE:

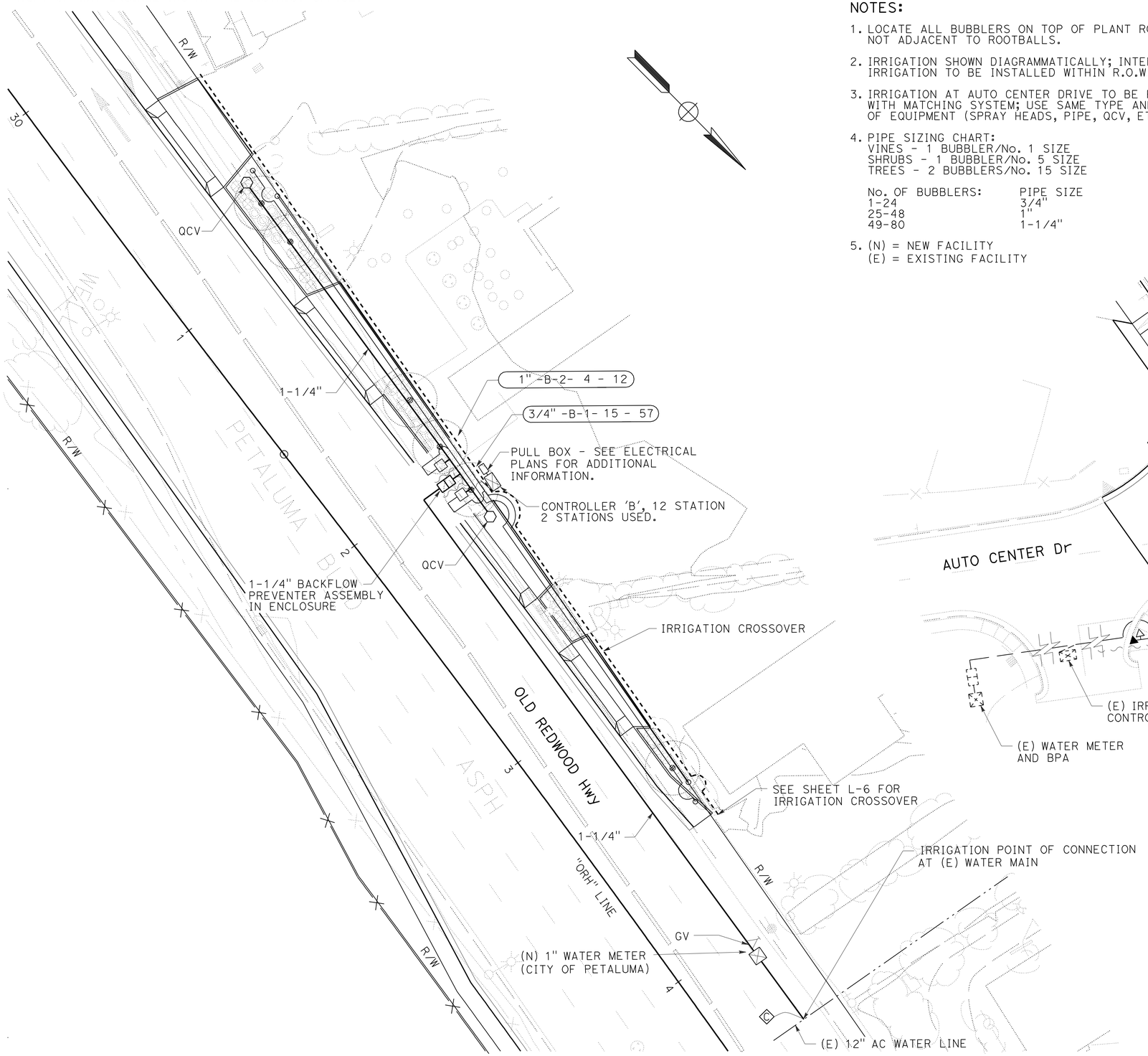
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

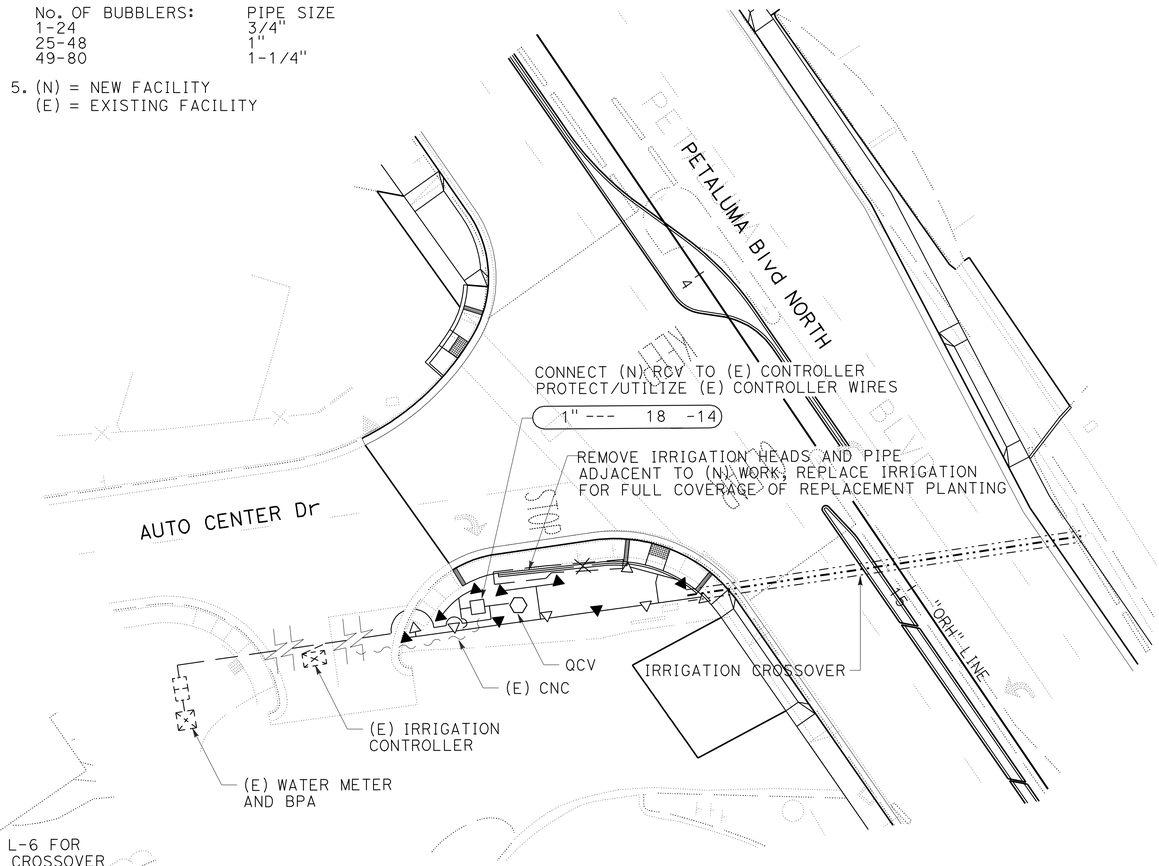
NOTES:

1. LOCATE ALL BUBBLERS ON TOP OF PLANT ROOTBALLS, NOT ADJACENT TO ROOTBALLS.
2. IRRIGATION SHOWN DIAGRAMMATICALLY; INTENT IS FOR IRRIGATION TO BE INSTALLED WITHIN R.O.W.
3. IRRIGATION AT AUTO CENTER DRIVE TO BE REPLACED WITH MATCHING SYSTEM; USE SAME TYPE AND/OR BRAND OF EQUIPMENT (SPRAY HEADS, PIPE, QCV, ETC.)
4. PIPE SIZING CHART:
   VINES - 1 BUBBLER/No. 1 SIZE
   SHRUBS - 1 BUBBLER/No. 5 SIZE
   TREES - 2 BUBBLERS/No. 15 SIZE

No. OF BUBBLERS:	PIPE SIZE
1-24	3/4"
25-48	1"
49-80	1-1/4"

5. (N) = NEW FACILITY
   (E) = EXISTING FACILITY





AUTO CENTER DR LOCATION

NOTES:

(E) IRRIGATION WATER METER IS LOCATED APPROX. 350 L.F. SOUTH OF AUTO CENTER DR INTERSECTION

(E) IRRIGATION CONTROLLER IS LOCATED APPROX. 260 L.F. SOUTH OF AUTO CENTER DR INTERSECTION

APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN

SCALE: 1" = 20'

IP-1

HN	5/24/12		
HN	4/19/12		
REVISED BY	DATE REVISED		
ALEXANDER GUNST	WILLIAM KANAMOTO		
CALCULATED-DESIGNED BY	CHECKED BY		
CONSULTANT FUNCTIONAL SUPERVISOR	RAMSEY HISSEN		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 09:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	266	535

LICENSED LANDSCAPE ARCHITECT DATE 4/19/12

PLANS APPROVAL DATE 9-10-12

LICENSED LANDSCAPE ARCHITECT ALEXANDER GUNST No. 3295 05-31-14 Exp. STATE OF CALIFORNIA

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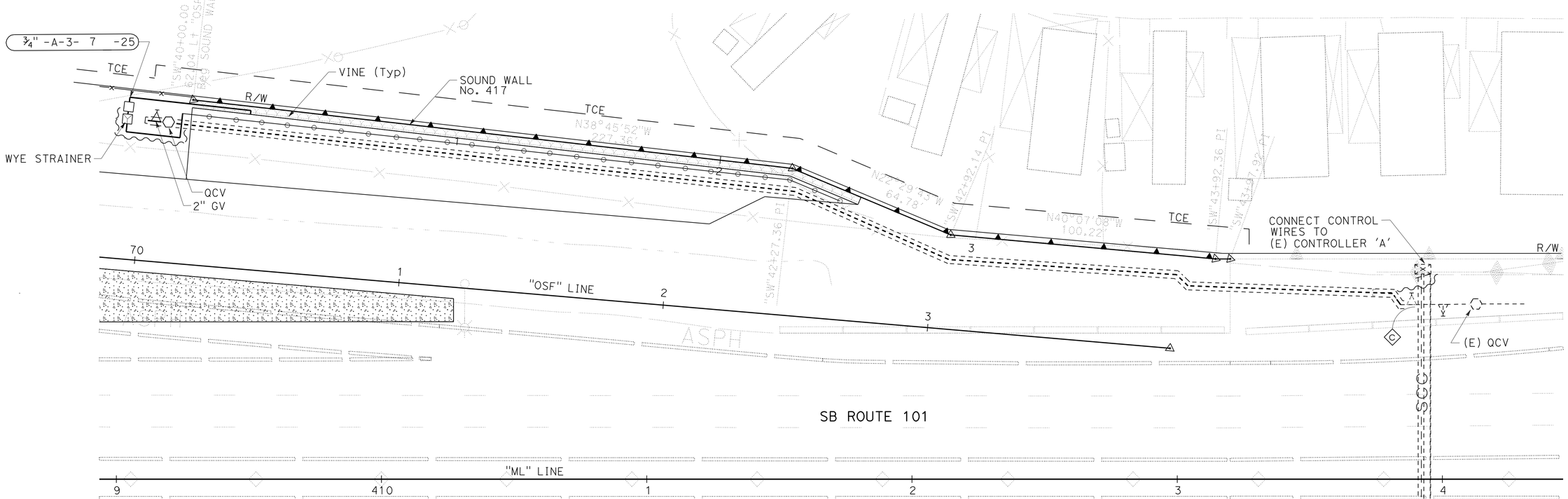

NOTES:

1. LOCATE ALL BUBBLERS ON TOP OF PLANT ROOTBALLS, NOT ADJACENT TO ROOTBALLS.
2. IRRIGATION SHOWN DIAGRAMMATICALLY; INTENT IS FOR IRRIGATION TO BE INSTALLED WITHIN R.O.W.
3. IRRIGATION AT AUTO CENTER DRIVE TO BE REPLACED WITH MATCHING SYSTEM; USE SAME TYPE AND/OR BRAND OF EQUIPMENT (SPRAY HEADS, PIPE, QCV, ETC.)
4. SEE LAYOUT PLANS FOR LOCATIONS OF PROPOSED IRRIGATION CROSSOVERS.
5. SEE DRAINAGE PLANS FOR LOCATION OF PCC LINED DITCH ALONG OSF LINE.
6. SUPPLY LINES (MAIN) AND (LATERAL) MAY BE PLACED IN SAME TRENCH WITH IRRIGATION CROSSOVERS.
7. INSTALL No. 5 PULLBOX AT POINTS OF CONNECTION OR ANGLES TO PROVIDE ACCESS UNDER PAVING.
8. CONNECTION TO Exist SUPPLY LINE (MAIN) WILL REQUIRE SAWCUT TO INSTALL BELOW PAVEMENT AT "ML" Sta 413+93±.

PIPE SIZING CHART:
VINES - 1 BUBBLER/No. 1 SIZE
SHRUBS - 1 BUBBLER/No. 5 SIZE
TREES - 2 BUBBLERS/No. 15 SIZE

No. OF BUBBLERS:	PIPE SIZE
1-24	3/4"
25-48	1"
49-80	1-1/4"

IRRIGATION PLAN

SCALE: 1" = 20'

IP-2

APPROVED FOR IRRIGATION WORK ONLY

REVISED BY	HN	HN
DATE REVISED	5/24/12	4/19/12

ALEXANDER GUNST — WILLIAM KANAMOTO

CALCULATED-DESIGNED BY — CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR — RAMSEY HISSEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	267	535

LICENSED LANDSCAPE ARCHITECT — DATE 4/19/12

9-10-12
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — ALEXANDER GUNST — No. 3295 — 05-31-14 Exp. — STATE OF CALIFORNIA

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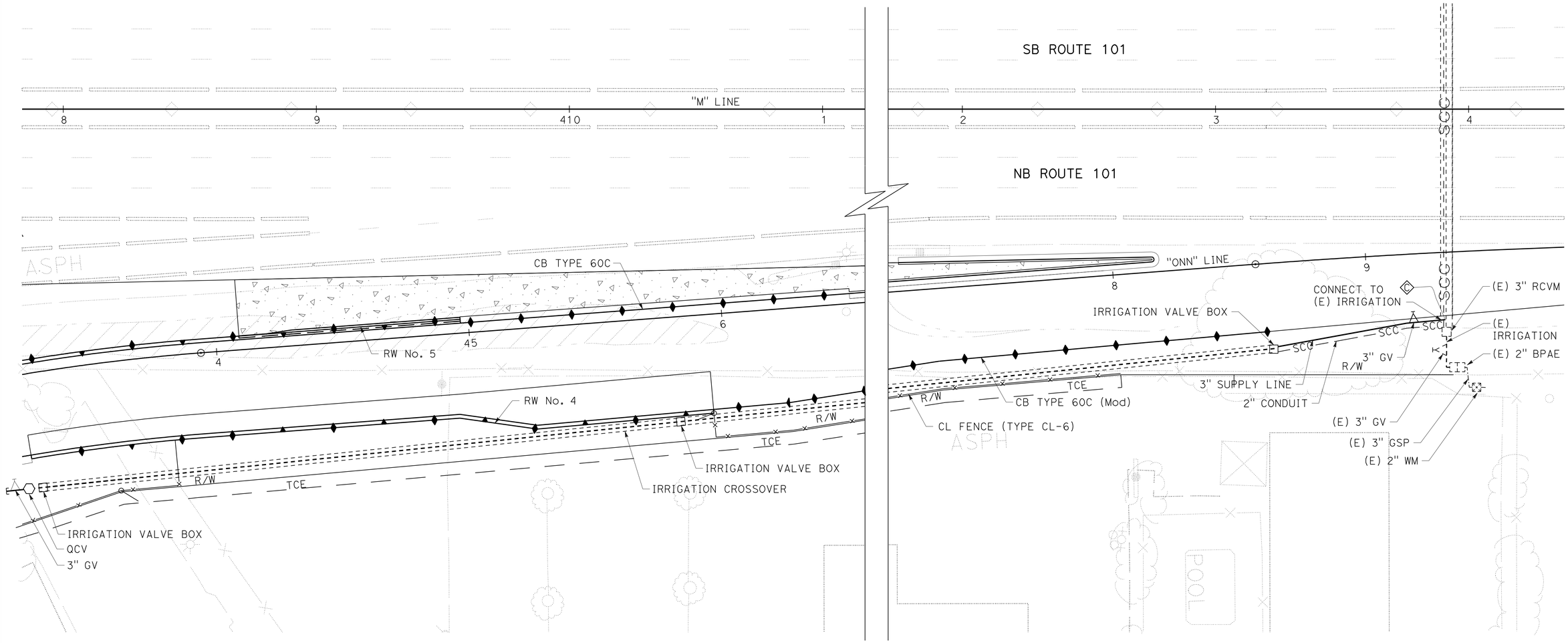

IRRIGATION PLAN

SCALE: 1" = 20'

IP-3

APPROVED FOR IRRIGATION WORK ONLY

ALEXANDER GUNST	5/24/12
WILLIAM KANAMOTO	4/19/12
RAMSEY HISSEN	

REVISED BY — DATE REVISED
CALCULATED-DESIGNED BY
CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR

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04	Son	101	7.1/8.1	268	535

LICENSED LANDSCAPE ARCHITECT DATE 4/19/12

PLANS APPROVAL DATE 9-10-12

LICENSED LANDSCAPE ARCHITECT ALEXANDER GUNST No. 3295 05-31-14 Exp. STATE OF CALIFORNIA

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SPRINKLER SCHEDULE

SYMBOL	TYPE	DESCRIPTION	SPRAY PATTERN	OPERATING PRESSURE (psi)	PRESSURE COMPENSATING	PLUS/MINUS 5% DISCHARGE GALLONS PER MINUTE (GPM)	PLUS/MINUS 5% DISCHARGE GALLONS PER HOUR (GPH)	PLUS/MINUS 5% RADIUS (ft)	PLUS/MINUS 5% WIDTH X LENGTH (ft)	MATERIAL	INLET CONNECTION (NPT INCH)	POSITIVE LOCKING Adj ARC STOP	BACKSPLASH PREVENTER	DIFFUSER PIN	DISTANCE CONTROL FLAP	Adj DISCHARGE	RISER TYPE	RISER MATERIAL PLASTIC	RISER MATERIAL GALVANIZED	RISER SIZE (IPS INCH)	RISER HEIGHT (INCH)	RISER FLOW SHUTOFF DEVICE	SWING JOINT (TYPE)	SPRINKLER PROTECTOR (TYPE)	REMARKS
●	C-2	BUBBLER	-	30	X	.25	-	-	-	PL	1/2"	-	-	-	-	-	V	-	-	1/2"	-	-	-	-	
△	B-1	12" POP-UP SPRAY	Q / H	30	X	.65 / 1.3	-	12	-	PL	1/2"	-	-	-	-	X	I	-	-	1/2"	-	-	I	-	REPLACEMENT FOR (E) IRRIGATION, SELECT TO FIT
▲	B-2	12' POP-UP SPRAY	Q / H	30	X	.92 / 1.85	-	15	-	PL	1/2"	-	-	-	-	X	I	-	-	1/2"	-	-	I	-	REPLACEMENT FOR (E) IRRIGATION, SELECT TO FIT

X IN BOX DENOTES REQUIREMENT

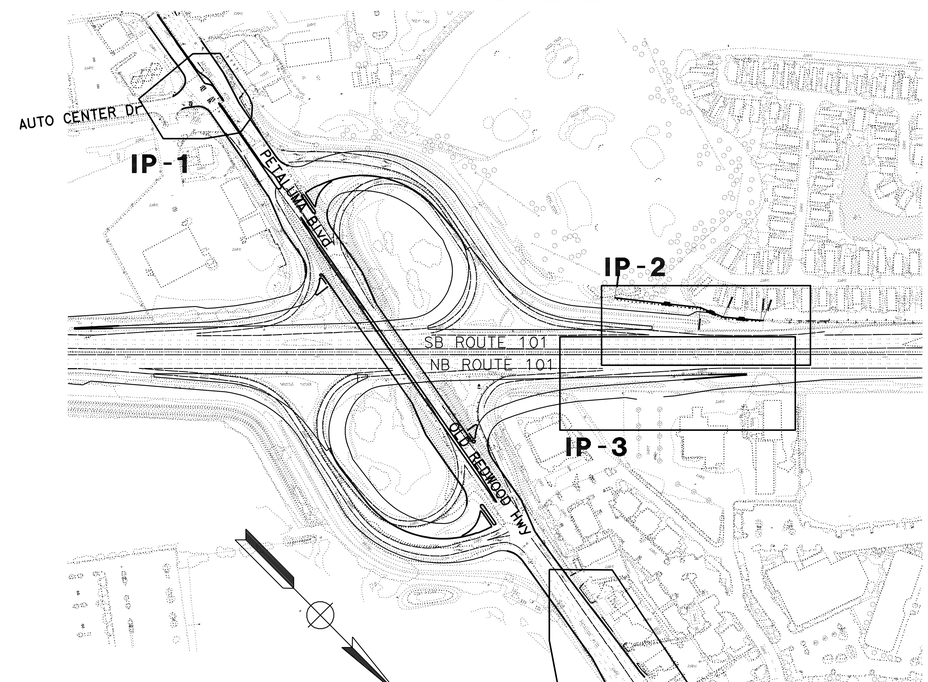
APPLICABLE WHEN CIRCLED BELOW:

1 — SEE SPECIAL PROVISIONS.
2 — IF A PRESSURE COMPENSATING DEVISE IS SPECIFIED, THE DISCHARGE AND RADII SHOWN REFLECT ITS USE.
3 — ARC STOP SHALL BE FITTED WITH A NUT AND BOLT.
4 — VINYL-COATED CAST IRON HOUSING.
5 — SWING JOINTS REQUIRED ADJACENT TO SHOULDERS, CURBS, SIDEWALKS AND DIKES.
6 — UNLESS OTHERWISE SHOWN ON PLANS.
7 — SEE DETAIL.

ABBREVIATIONS:

F	FULL CIRCLE	Ft	FOOT/FEET
P	PART CIRCLE	GPM	GALLONS PER MINUTE
F/P	FULL/PART CIRCLE	GPH	GALLONS PER HOUR
Q	QUARTER CIRCLE	Adj.	ADJUSTABLE
T	THIRD CIRCLE	PL	PLASTIC
H	HALF CIRCLE	B/B	BRASS/BRONZE
TT	TWO THIRDS CIRCLE	B/PL	BRASS/PLASTIC
TQ	THREE QUARTERS CIRCLE	B/B/PL	BRASS/BRONZE/PLASTIC
CST	CENTER STRIP	NPT	NATIONAL PIPE THREAD
SST	SIDE STRIP	IPS	IRON PIPE SIZE
EST	END STRIP	PSI	POUNDS PER SQUARE INCH

SITE MAP



SPRINKLER SCHEDULE AND LANDSCAPE DETAILS

NO SCALE

LD-1

REVISED BY	HN	HN	HN
DATE REVISED	4/19/12	4/19/12	5/24/12
CALCULATED-DESIGNED BY	ALEXANDER GUNST		
CHECKED BY	WILLIAM KANAMOTO		
CONSULTANT FUNCTIONAL SUPERVISOR	RAMSEY HISSEN		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

ELECTRICAL INDEX

E-1 TO E-3	ELECTRICAL INDEX, NOTES, ABBREVIATIONS AND LEGEND
E-4 TO E-7	LIGHTING AND SIGN ILLUMINATION
E-8	LIGHTING (CITY STREET)
E-9	ELECTRIC SERVICE (IRRIGATION) LIGHTING (CITY STREET)
E-10 TO E-12	TRAFFIC OPERATIONS SYSTEM
E-13 TO E-24	SIGNAL AND LIGHTING
E-25	INTERCONNECTION CONDUIT AND CABLE
E-26 TO E-33	ELECTRICAL DETAILS
E-34 TO E-35	ELECTRICAL NOTES AND LEGEND (STAGE CONSTRUCTION)
E-36 TO E-51	LIGHTING AND SIGN ILLUMINATION (STAGE CONSTRUCTION)
E-52 TO E-58	TRAFFIC OPERATIONS SYSTEM (STAGE CONSTRUCTION)
E-59 TO E-120	SIGNAL AND LIGHTING (STAGE CONSTRUCTION)
E-121 TO E-127	ELECTRICAL DETAILS (STAGE CONSTRUCTION)

ELECTRICAL GENERAL NOTES (FOR SHEETS E-1 TO E-33)

1. NO ABOVE GROUND ELECTRICAL WORK SHALL BE PERFORMED ON ANY SYSTEM WITHIN THE PROJECT SITE UNTIL ALL CONTRACTOR-FURNISHED ELECTRICAL MATERIALS FOR THAT INDIVIDUAL SYSTEM HAVE BEEN TESTED AND DELIVERED TO THE CONTRACTOR.
2. THE NEUTRAL CONDUCTOR SHALL RUN FROM THE EQUIPMENT ENCLOSURE TO THE CONTROLLER CABINET WITHOUT SPLICING TO ANY OTHER NEUTRAL CONDUCTOR.
3. THE CLEARANCE BETWEEN THE BOTTOM OF THE LOWEST CIRCUIT BREAKER AND THE BOTTOM OF THE SERVICE EQUIPMENT ENCLOSURE FOR A TYPE III-A SERIES SHALL BE 24 INCHES MINIMUM.
4. WHERE ONE OR MORE TRAFFIC SIGNAL DETECTOR(S) CONSIST OF A SEQUENCE OF 4 LOOPS IN A SINGLE LANE, THE FRONT LOOP CLOSEST TO THE LIMIT LINE OR CROSSWALK SHALL BE LOCATED 1 FOOT FROM THE LINE. THE SET OF 3 LOOPS OR 4 LOOPS ASSIGNED TO THE SAME LOOP DETECTOR LEAD-IN CABLE (DLC) SHALL BE CONNECTED IN SERIES FOR TRAFFIC SIGNAL SYSTEM ONLY AND NOT FOR RAMP METERING SYSTEM.
5. PULL BOXES FOR CIRCUITS LABELED "CITY CIRCUIT" ON THE PLANS SHALL NOT HAVE THE "CALTRANS" COVER MARKING. THE COVERS SHALL BE MARKED "CITY".
6. SLEEVE NUTS SHALL BE USED ON TYPE 1-B STANDARD. FOUNDATIONS FOR TYPE 1-B STANDARDS SHALL CONFORM TO THE DETAILS ON STANDARD PLANS RSP ES-7B, "ANCHOR BOLTS WITH SLEEVE NUTS", EXCEPT THAT THE BOTTOM OF THE BASE PLATE SHALL BE FLUSH WITH THE FINISHED GRADE.
7. PULL BOXES NOT TO BE REUSED SHALL BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR. FOUNDATIONS NOT TO BE REUSED SHALL BE ABANDONED.
8. COLOR CODING OF TRAFFIC SIGNAL CONDUCTOR FOR OVERLAP PHASES, SEE DETAIL A ON SHEET E-15, "SIGNAL AND LIGHTING LOCATION 1, CONDUCTOR, POLE AND EQUIPMENT SCHEDULES".
9. PRIOR TO ANY WORK ON PG&E SERVICE POINTS, THE CONTRACTOR SHALL NOTIFY PG&E AT (707) 579-6478.

ABBREVIATIONS (FOR SHEETS E-1 TO E-33)

ACC	ANTENNA COAXIAL CABLE
ADA	AMERICANS WITH DISABILITIES ACT
APS	ACCESSIBLE PEDESTRIAN SIGNALS
AT&T	AMERICAN TELEPHONE AND TELEGRAPH COMPANY
CTID	CALTRANS IDENTIFICATION
evdb	EXISTING EMERGENCY VEHICLE DETECTOR (CHANNEL b)
EVDC	EMERGENCY VEHICLE DETECTOR (CHANNEL C)
GPRS	GENERAL PACKET RADIO SERVICE
hcc	EXISTING HYBRID CAMERA CABLE
LLLD	LONG LEAD LOOP DETECTOR
PG&E	PACIFIC GAS AND ELECTRIC COMPANY
tc	EXISTING TELEPHONE CABLE (6 PAIR #22)
TC	TELEPHONE CABLE (6 PAIR #22)
TOU	"TIME OF USE" METER SOCKET
wmvds	EXISTING WIRELESS MAGNETOMETER VEHICLE DETECTION STATION

LEGEND (FOR SHEETS E-1 TO E-33)

	RAMP METER SIGNAL, POLE-MOUNTED. SEE DETAILS ON SHEET E-30.
	EXISTING MAGNETOMETER VEHICLE SENSOR NODE (VSN)
	EXISTING DIRECTIONAL WIRELESS INTERCONNECT ANTENNA
wmvds	EXISTING SOLAR-POWERED WIRELESS MAGNETOMETER VEHICLE DETECTION STATION (ACCESS POINT)
C	EXISTING CITY STREET LIGHT
C A1 CIRCUIT No.	CITY HISTORIC STYLE MAST ARM STREET LIGHT WITH TEARDROP 150 W HPS FIXTURE. SEE STREET LIGHT ON SHEET E-33.
S A1 CIRCUIT No.	CITY HISTORIC STYLE MAST ARM STREET LIGHT WITH TEARDROP 150 W HPS FIXTURE MOUNTING ON STRUCTURE. SEE STREET LIGHT DETAILS ON SHEET E-33. SEE STRUCTURE PLAN SHEET 33 OF 44, ARCHITECTURAL DETAILS No. 1 FOR MOUNTING DETAILS.

ELECTRICAL INDEX, NOTES, ABBREVIATIONS AND LEGEND

E-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: SIEW KONG
CHECKED BY: KIN CHAN
REVISED BY
DATE REVISED

LAST REVISION 04-19-12
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9-10-12
PLANS APPROVAL DATE

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3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

CITY OF PETALUMA
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PETALUMA, CA 94952

PROJECT NOTES:

1. REMOVE EXISTING WIRELESS MAGNETOMETER VEHICLE SENSOR NODE PER MANUFACTURER'S SAFETY POLICY AND PROCEDURES. VEHICLE SENSOR NODE SHALL BE RETURNED TO MANUFACTURER FOR DISPOSAL. SEE SPECIAL PROVISIONS FOR DETAILS.
2. 2"C, 2#8 (120 V IRRIGATION).
3. SEE SHEETS E-29 AND E-30 FOR RAMP METERING SYSTEMS DETAILS.
4. EXISTING CONDUIT AND SERVICE WIRES. COORDINATE WITH PG&E FOR SERVICE (120/240 V) CONNECTION FOR LIGHTING AND TOS SYSTEM.
5. 2"C, 3#2 (SERVICE).
6. INSTALL GPRS WIRELESS MODEM ASSEMBLY, ANTENNA, POWER SUPPLY AND TERMINAL BLOCK IN CABINET. SEE DETAILS ON SHEET E-31.
7. INSTALL 2" CONDUIT TO CONNECT TO EXISTING 2" CONDUIT STUB-OUT.
8. INSTALL TYPE 1-B POLE WITH "METER ON" SIGN. SEE DETAILS ON SHEET E-30.
9. INSTALL STATE-FURNISHED MODEL 2070 CONTROLLER ASSEMBLY IN MODEL 334L CABINET.
10. 4-SECTION VEHICLE SIGNAL HEAD. SEE DETAIL A ON SHEET E-26.
11. 5-SECTION VEHICLE SIGNAL HEAD. SEE DETAIL B ON SHEET E-26.
12. 2"C, 3#4 (120 V LIGHTING CIRCUITS No. A1 AND A2), 2#8 (120 V IRRIGATION), 3#14 (PEU).
13. 5-SECTION VEHICLE SIGNAL HEAD. SEE DETAIL C ON SHEET E-26.
14. INSTALL TYPE 1-B POLE WITH RAMP METER SIGNAL. SEE DETAIL "SIG" ON SHEET E-30.
15. INSTALL ELECTRICAL EQUIPMENT A MINIMUM OF 18' FROM ETW.
16. INSTALL STATE-FURNISHED MODEL 2070 CONTROLLER ASSEMBLY IN MODEL 332 CABINET. FRONT DOOR OF CABINET SHALL FACE SOUTH.
17. REPLACE EXISTING SC3 WITH SC1.
18. 4-SECTION VEHICLE SIGNAL HEAD. SEE DETAIL D ON SHEET E-26.
19. REPLACE EXISTING PULL BOX WITH NEW No. 5 PULL BOX.
20. INSTALL TYPE 1-B POLE WITH PEU. SEE ES-7N FOR INSTALLATION DETAILS.
21. SC BY PG&E. THIS IS A PG&E TERMINATION POINT.
22. INSTALL TYPE 1-B POLE (7') WITH RAMP METER SIGNAL ON BARRIER. SEE DETAIL "SIG" ON SHEET E-30. SEE STRUCTURAL-RETAINING WALL PLANS No. 4 and No. 5 FOR MOUNTING DETAIL. SIGNAL HEAD SHALL NOT BE INSTALLED OVER THE SHOULDER AREA.
23. EXISTING 2"C, 3#2 (SERVICE) TO REMAIN.
24. EXISTING cctv CAMERA AND cctv 40 POLE TO REMAIN.
25. THE CONTRACTOR SHALL MAINTAIN EXISTING CONDUIT AND CONDUCTORS/CABLE.
26. EXISTING CAMERA STATION: EXISTING MODEL 170 CONTROLLER ASSEMBLY IN MODEL 334 CABINET TO REMAIN.
27. DETECTOR LOOP SHALL BE 5-TURN.
28. CONNECT LIGHTING, SIGN ILLUMINATION, AND TWO RAMP METERING SYSTEMS TO EXISTING SPARE CIRCUIT BREAKERS IN TYPE III-AF SERVICE EQUIPMENT ENCLOSURE.
29. SOLAR-POWERED SPEED DETECTOR SHALL BE REMOVED BY SPEEDINFO. CONTRACTOR SHALL NOTIFY SPEEDINFO AT (408) 446-2662 AND ENGINEER, 48 HOURS PRIOR TO REMOVING THE EQUIPMENT.
30. EXISTING MODEL 170 CONTROLLER ASSEMBLY IN MODEL 332 CONTROLLER CABINET. ADD LOAD SWITCHES FOR Ø2P AND Ø4P. MODIFY EXISTING CONTROLLER ASSEMBLY AS NECESSARY TO PROVIDE OPERATION IN PROPOSED PHASE DIAGRAM.
31. SC BY PG&E. THIS IS A PG&E TERMINATION POINT FOR CITY STREET LIGHTING AND IRRIGATION SYSTEMS.
32. EXISTING 2½"C, 2#2 (120 V CAMERA STATION), 2#10 (120 V TDC). ADD 4#4 (120 V RM), 2#4 (240 V LIGHTING), 2#8 (240 V SIGN ILLUMINATION), 2#14 (120 V TEST SWITCH).
33. 2"C, 9#14, 1#8.
    2"C, 12 DLC.
34. SEE SHEET E-29 FOR LOOP LAYOUT DETAILS.
35. PART OF "LIGHTING AND SIGN ILLUMINATION" BID ITEM.
36. INSTALL RELOCATED EMERGENCY VEHICLE DETECTOR ON NEW SIGNAL MAST ARM.
37. 2"C, 2#4 (120 V RM), 2#10 (METER ON), 2 DLC.
38. 2"C, 2#4 (120 V LIGHTING CIRCUIT No. A1).
39. 2"C, 3#4 (120 V LIGHTING CIRCUITS No. A1 AND A2).
40. 2"C, 2#4 (120 V LIGHTING CIRCUIT No. A2).
41. EXISTING 2"C, 2 dlc. REMOVE 2 dlc. ADD 2 DLC.
42. EXISTING 2"C, 5 dlc. REMOVE 5 dlc. ADD 6 DLC.
43. EXISTING 2"C, 2#6 (120 V CONTROLLER), 2#8 (120 V LIGHTING), 3#14 (peu) TO REMAIN.
44. 2"C, 2#10 (METER ON).
45. EXISTING 2"C, 1 sic. REMOVE 1 sic. ADD 1 SIC.
46. EXISTING 2"C, 1 sic TO REMAIN.
47. SEE DETAIL A ON SHEET E-8 FOR POLE LOCATION.
48. SEE DETAIL B ON SHEET E-8 FOR POLE LOCATION.
49. INSTALL CITY STANDARD STREET LIGHT ON BARRIER. SEE STREET LIGHT DETAIL ON SHEET E-33. SEE STRUCTURE PLAN SHEET 33 OF 44, ARCHITECTURAL DETAILS No. 1 FOR MOUNTING DETAILS.
50. TO EXISTING TYPE III-AF EQUIPMENT ENCLOSURE No. 07724 (FOR TRAFFIC SIGNAL AT OLD REDWOOD Hwy/ROUTE 101 NB ON/OFF-RAMP INTERSECTION). SEE SHEET E-19 FOR DETAIL.
51. 2"C, 2#2 (120 V CAMERA STATION).
52. 2"C, 1 TC.
53. EXISTING 3"C, 2#2 (120 V CAMERA STATION) TO REMAIN.
    EXISTING 3"C, mt TO REMAIN.
54. EXISTING 3"C, 1 hcc TO REMAIN.
55. 2"C, 2#2 (120 V CAMERA STATION), 2#4 (120 V RM), 2#10 (120 V TDC).
56. EXISTING 2"C, 1 TELEPHONE LINE (SERVICE) TO REMAIN.
57. EXISTING 2½"C, 2#2 (120 V CAMERA STATION), 2#10 (120 V tdc). ADD 4#4 (120 V RM), 2#4 (240 V LIGHTING), 2#8 (240 V SIGN ILLUMINATION), 2#14 (120 V TEST SWITCH), 3#14 (PEU).
58. EXISTING 2"C, 5 dlc. REMOVE 5 dlc. ADD 7 DLC.
59. EXISTING 2"C, 3 dlc. REMOVE 3 dlc. ADD 2 DLC.
60. 2"C, 2#6 (120 V SIGNAL), 2#8 (120 V LIGHTING), 3#14 (PEU).
61. 2"C, 3#4 (120 V LIGHTING CIRCUITS No. A1 AND A2), 3#14 (PEU).
62. INSTALL ELECTRICAL EQUIPMENT A MINIMUM OF 4' FROM ETW.
63. EXISTING 2"C, 1 tc. REMOVE 1 tc. ADD 1 TC.
64. 2"C, 2#4 (120 V RM), 2#10 (120 V METER ON).
65. EXISTING 3"C, 2#8. REMOVE 2#8. ADD 2#2 (240 V LIGHTING), 2#8 (240 V SIGN ILLUMINATION), 2#14 (120 V TEST SWITCH).
66. 3"C, 2#2 (240 V LIGHTING), 2#8 (240 V SIGN ILLUMINATION), 2#14 (120 V TEST SWITCH).
67. 3"C, 6#2 (SERVICE).
68. EXISTING 3"C, 2#8, 2#14. REMOVE ALL CONDUCTORS. ADD 2#4 (240 V LIGHTING), 2#8 (240 V SIGN ILLUMINATION), 2#14 (120 V TEST SWITCH).
69. ADJUST EXISTING PULL BOX TO FINAL GRADE AS REQUIRED.
70. 2"C, 2#2 (240 V LIGHTING).
71. EXISTING 2"C, 2#8, 2#14. REMOVE ALL CONDUCTORS. ADD 2#2 (240 V LIGHTING).
72. 2"C, 2#2 (240 V LIGHTING), 2#8 (240 V SIGN ILLUMINATION), 2#14 (120 V TEST SWITCH).
73. EXISTING 2"C, 2#10 (120 V tdc) TO REMAIN.
74. 2"C, 2#8 (240 V SIGN ILLUMINATION), 2#14 (120 V TEST SWITCH).
75. 3"C, 9#14, 1#8, 11 DLC.
76. 3"C, 2#4 (120 V RM), 2#10 (METER ON), 9#14, 1#8.
    3"C, 13 DLC.
77. EXISTING 2"C, 2#8 (240 V SIGN ILLUMINATION), 2#14 (120 V TEST SWITCH) TO REMAIN.
78. EXISTING CONDUIT AND SERVICE WIRES. COORDINATE WITH PG&E FOR SERVICE (240/480 V) REMOVAL OF EXISTING LIGHTING SYSTEM.
79. 3"C, 2#2 (240 V LIGHTING), 4#4 (120 V RM), 2#8 (240 V SIGN ILLUMINATION), 2#14 (120 V TEST SWITCH), 3#14 (PEU).
80. 2"C, 6#14, 1#8.
    2"C, 10 DLC.
81. 3"C, 9#14, 1#8, 12 DLC.
82. 3"C, 2#4 (120 V RM), 2#10 (METER ON), 9#14, 1#8.
    3"C, 14 DLC.
83. 2"C, 2#2 (120 V CAMERA STATION), 2#4 (120 V RM).
84. 2"C, 2#4 (240 V LIGHTING).
85. 2"C, 2#4 (240 V LIGHTING), 2#8 (240 V SIGN ILLUMINATION), 2#14 (120 V TEST SWITCH).
86. INSTALL RELOCATED SIGN ON NEW SIGNAL MAST ARM.
87. 2"C, 2#4 (120 V RM).
88. 2"C, 4#4 (120 V RM).
89. 2"C, 6#14, 1#8, 2 DLC.
90. SEE 3' x 6' TYPE D BIKE LOOP DETAIL ON SHEET E-26.
91. SEE 5' x 6' TYPE D BIKE LOOP DETAIL ON SHEET E-26.
92. CONNECT AND ACTIVATE S3-1 AND S3-2 DETECTOR LOOPS.
93. EXISTING 2-3"C, 2#6 (120 V tms CONTROLLER), 12 dlc TO REMAIN.
94. EXISTING 2"C, 2#6 (120 V tms CONTROLLER) TO REMAIN.
95. EXISTING tms: EXISTING MODEL 170 CONTROLLER ASSEMBLY IN MODEL 334 CABINET TO REMAIN.
96. REPLACE EXISTING PULL BOX WITH PG&E PULL BOX PER SERVICE UTILITY REQUIREMENTS. COVER SHALL BE MARKED AS "PG&E".
97. RS EXISTING PEDESTRIAN PUSH BUTTON. COVER REMAINING HOLE WITH STEEL PLATE.
98. THE CONTRACTOR SHALL PROTECT AND MAINTAIN EXISTING SIGNAL STANDARD AND EQUIPMENT IN PLACE DURING CONSTRUCTION OF NEW CURB RAMP.
99. INSTALL CITY STANDARD STREET LIGHT WITH 21' HEIGHT.
100. REPLACE EXISTING PULL BOX WITH PG&E PULL BOX PER SERVICE UTILITY REQUIREMENTS. COVER SHALL BE MARKED AS "CALTRANS/PG&E".

PROJECT NOTES

E-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: SIEW KONG
CHECKED BY: KIN CHAN
REVISED BY
DATE REVISED

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 09:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	271	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

PROJECT NOTES:

101 EXISTING SERVICE CONDUIT AND CONDUCTORS. COORDINATE WITH PG&E FOR SERVICE CONNECTION.

102 INSTALL LLLD SENSOR UNIT FOR F1 AND F2 LOOPS AS REQUIRED.

103 IRRIGATION CONTROLLER. NOT ELECTRICAL PAY ITEM. SEE IRRIGATION PLAN SHEET IP-1 FOR EXACT LOCATION.

104 INSTALL TYPE 1-B POLE (7') WITH RAMP METER SIGNAL ON BARRIER. SEE DETAIL "SIG" ON SHEET E-30. SEE CONSTRUCTION DETAILS PLAN SHEET C-16 FOR FOUNDATION DETAIL. SEE SHEET E-32 FOR PULL BOX INSTALLATION DETAILS. SIGNAL HEAD SHALL NOT BE INSTALLED OVER THE SHOULDER AREA.

105 EXISTING SERVICE CONDUIT AND CONDUCTORS. COORDINATE WITH PG&E FOR SERVICE REMOVAL.

106 PART OF "SIGNAL AND LIGHTING (LOCATION 3)" BID ITEM.

107 EXISTING MODEL 170 CONTROLLER ASSEMBLY IN MODEL 332 CONTROLLER CABINET. ADD STATE-FURNISHED LOOP DETECTOR SENSOR UNITS FOR 4I7U AND 4I7L. MODIFY EXISTING CONTROLLER ASSEMBLY AS NECESSARY TO PROVIDE OPERATION IN PROPOSED PHASE DIAGRAM.

108 EXISTING SERVICE CONDUIT AND CONDUCTORS TO REMAIN.

109 INSTALL SIGNAL HEAD AT 14' ABOVE GRADE.

110 WITHDRAW 2 evc FOR evda AND evdc FROM EXISTING CONTROLLER CABINET TO THIS PULL BOX. REINSTALL 2 WITHDRAWN evc IN NEW/EXISTING CONDUITS AS SHOWN ON THE PLAN.

111 EXISTING 2"C, 2#6, 2#8, 3#14. REMOVE ALL CONDUCTORS. ADD 3#2 (SERVICE).

112 RS EXISTING AUDIBLE PEDESTRIAN SIGNAL DEVICE FROM EXISTING PEDESTRIAN SIGNAL HEAD.

113 INSTALL LLLD SENSOR UNIT FOR F1 LOOP AS REQUIRED.

114 INSTALL STATE-FURNISHED MODEL 2070 CONTROLLER ASSEMBLY IN MODEL 332 CABINET. FRONT DOOR OF CABINET SHALL FACE NORTH.

115 THE CONTRACTOR SHALL USE CAUTION WHEN INSTALLING SIGNAL AND LIGHTING EQUIPMENT NEAR UTILITY FACILITIES.

116 EXISTING 3"C, 2#8 TO REMAIN.

PROJECT NOTES

E-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: SIEW KONG
CHECKED BY: KIN CHAN
REVISED BY
DATE REVISED

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 09:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	272	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

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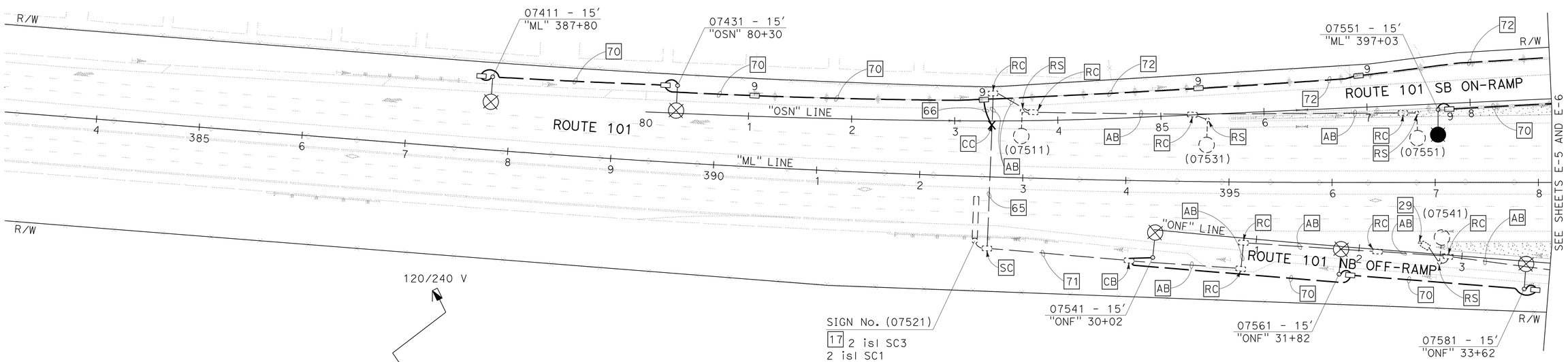
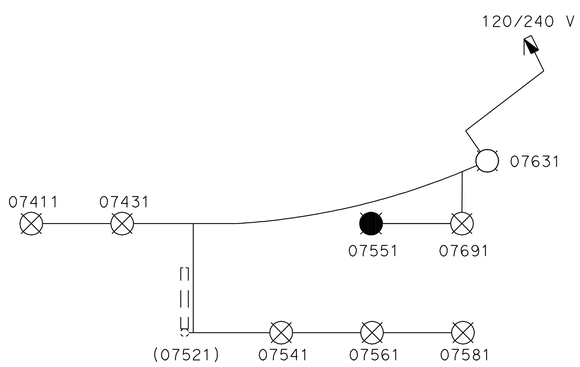
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.





CIRCUIT DIAGRAM

CTID No. 04201010007571
NO SCALE

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

LIGHTING AND SIGN ILLUMINATION

SCALE: 1" = 50'

E-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: SIEW KONG
CHECKED BY: KIN CHAN
REVISED BY
DATE REVISED

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 09:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	273	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

NOTES:

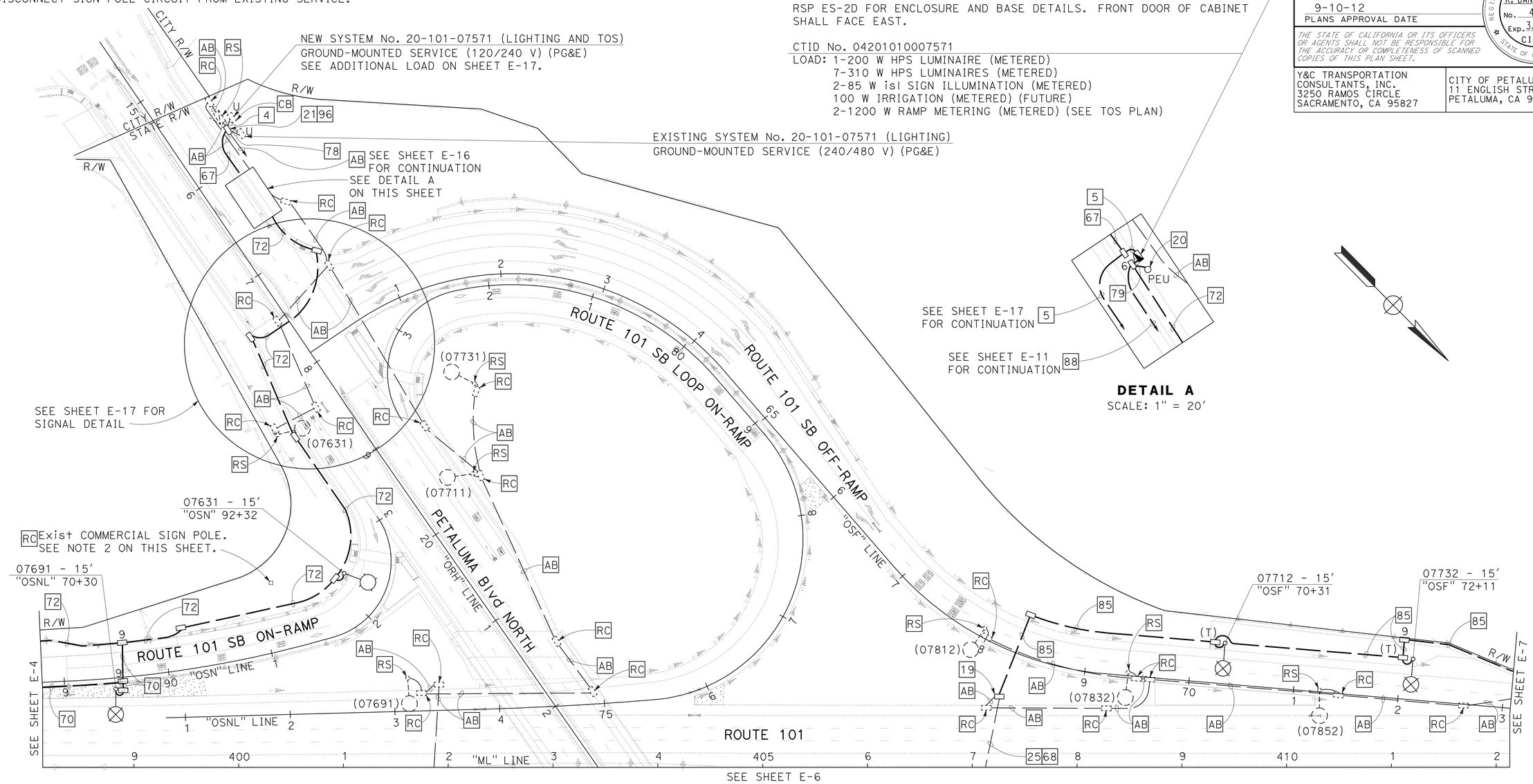
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. THE CONTRACTOR SHALL VERIFY EXISTING COMMERCIAL SIGN SYSTEM AND CONTACT THE CITY TO IDENTIFY THE EXISTING LOCATION. REMOVE POLE AND FOUNDATION. DISCONNECT SIGN POLE CIRCUIT FROM EXISTING SERVICE.

TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. 07571 A6(TOU)

PROVIDE EQUIPMENT ITEMS (1) THROUGH (14), (17), (18), (22) AND TWO (23) PER THE SERVICE WIRING DIAGRAM ON SHEET E-27. SEE RSP ES-2C AND RSP ES-2D FOR ENCLOSURE AND BASE DETAILS. FRONT DOOR OF CABINET SHALL FACE EAST.

CTID No. 04201010007571

LOAD: 1-200 W HPS LUMINAIRE (METERED)
7-310 W HPS LUMINAIRES (METERED)
2-85 W isl SIGN ILLUMINATION (METERED)
100 W IRRIGATION (METERED) (FUTURE)
2-1200 W RAMP METERING (METERED) (SEE TOS PLAN)



DETAIL A
SCALE: 1" = 20'

LIGHTING AND SIGN ILLUMINATION

SCALE: 1" = 50'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

E-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: SIEW KONG
CHECKED BY: KIN CHAN
REVISED BY / DATE REVISED

LAST REVISION 04-19-12
DATE PLOTTED => 19-SEP-2012
TIME PLOTTED => 10:21

BORDER LAST REVISED 7/2/2010
USERNAME => s124496
DGN FILE => 0400020652ua005.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0751
PROJECT NUMBER & PHASE 04000206521

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	274	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

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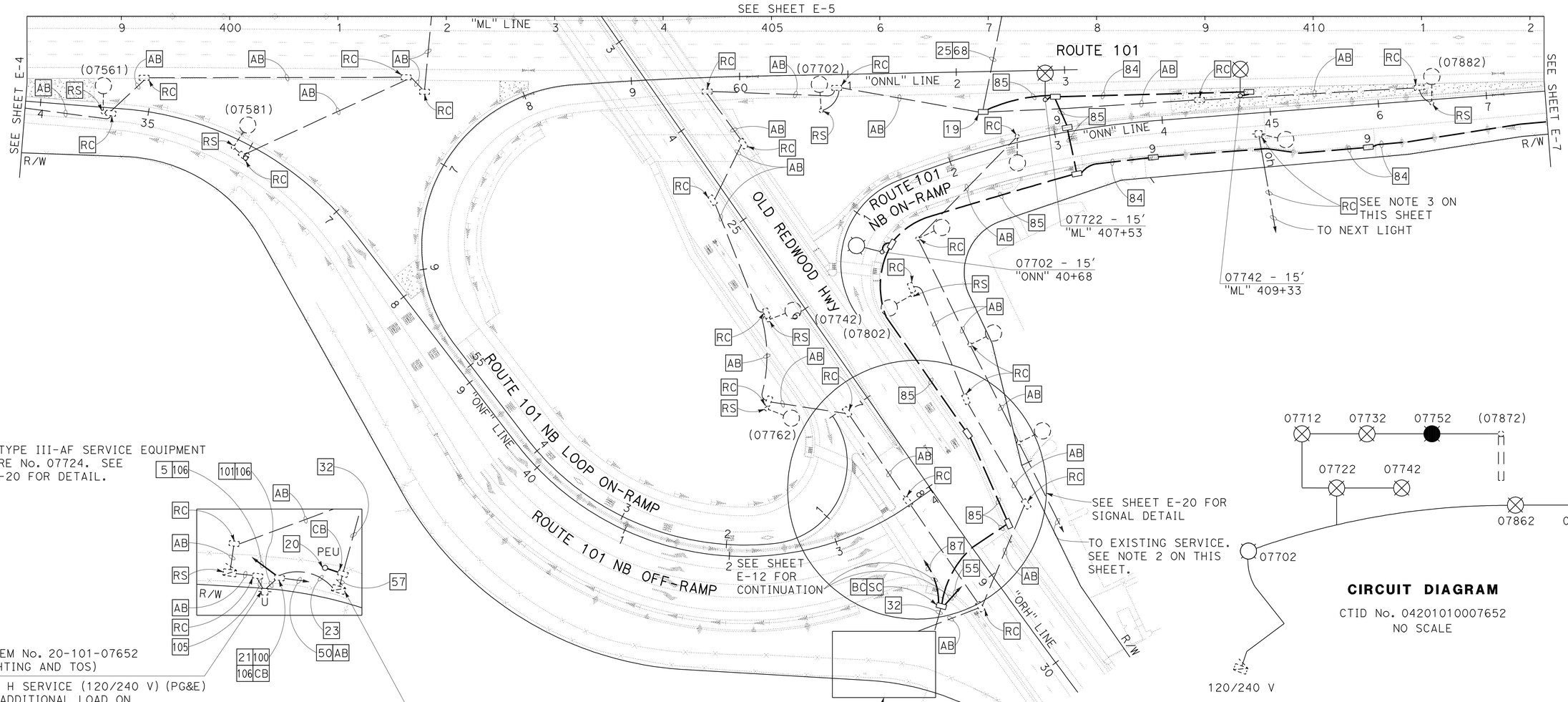
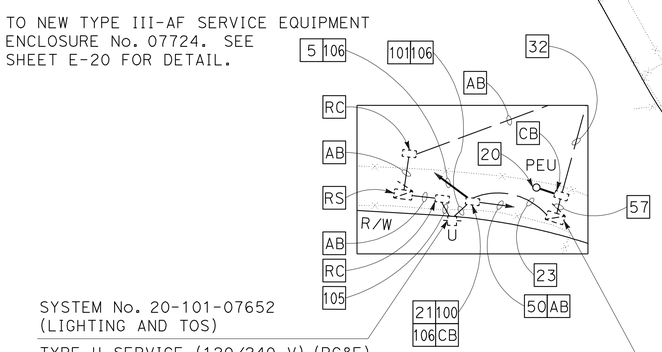
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. THE CONTRACTOR SHALL VERIFY EXISTING PARKING LOT LIGHTING SYSTEM. REMOVE EXISTING PARKING LOT LIGHTS AS SHOWN.
3. THE CONTRACTOR SHALL COORDINATE WITH PG&E TO DISCONNECT SERVICE PRIOR TO RC WOOD POLE WITH LIGHTING FIXTURE.





DETAIL A
SCALE: 1" = 20'

CIRCUIT DIAGRAM
CTID No. 04201010007652
NO SCALE

EXISTING TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. 07652

CTID No. 04201010007652

EXISTING LOAD: 100 W tdc (METERED) (SEE TOS PLAN)
1000 W cctv (METERED) (SEE TOS PLAN)
100 W IRRIGATION (METERED) (FUTURE)

MODIFIED LOAD: 1-200 W HPS LUMINAIRE (METERED)
7-310 W HPS LUMINAIRES (METERED)
2-85 W isl SIGN ILLUMINATION (METERED)
100 W tdc (METERED) (SEE TOS PLAN)
1000 W cctv (METERED) (SEE TOS PLAN)
100 W IRRIGATION (METERED) (FUTURE)
2-1200 W RAMP METERING (METERED) (SEE TOS PLAN)

APPROVED FOR ELECTRICAL WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

LIGHTING AND SIGN ILLUMINATION

SCALE: 1" = 50'

E-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: SIEW KONG
CHECKED BY: KIN CHAN
REVISED BY
DATE REVISED

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 09:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	275	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

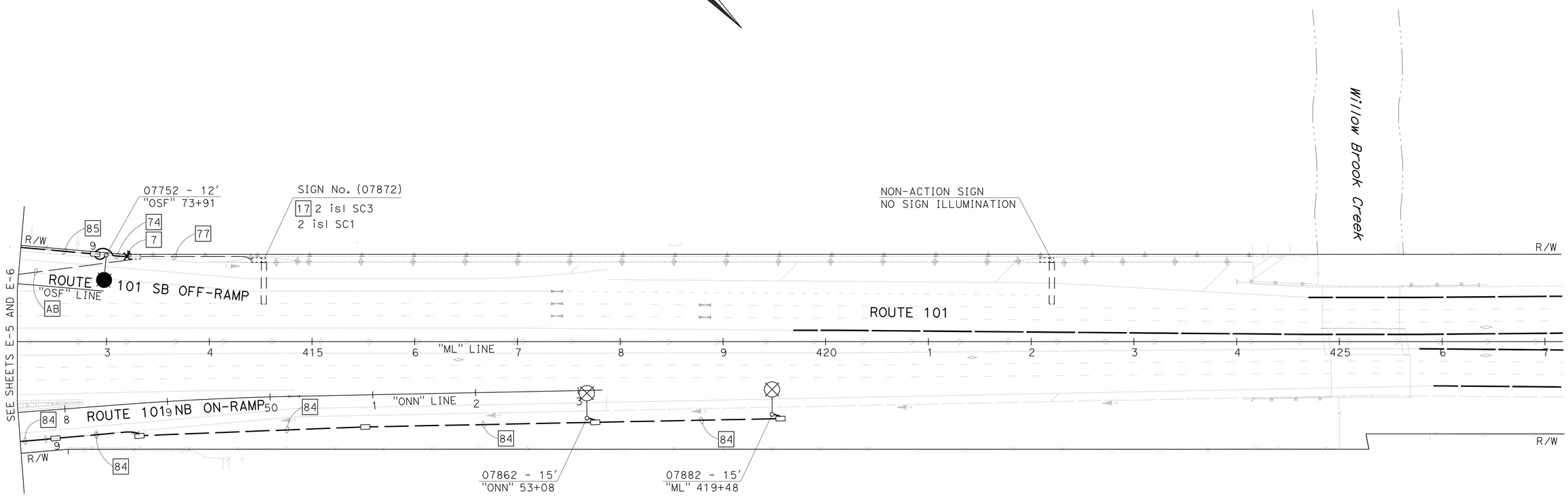
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



LIGHTING AND SIGN ILLUMINATION

SCALE: 1" = 50'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

E-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN

CALCULATED-DESIGNED BY: SIEW KONG

CHECKED BY: KIN CHAN

REVISED BY

DATE REVISED

LAST REVISION 04-19-12

DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 09:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	276	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

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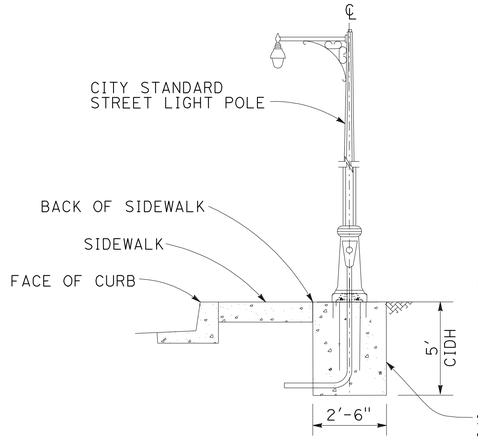
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

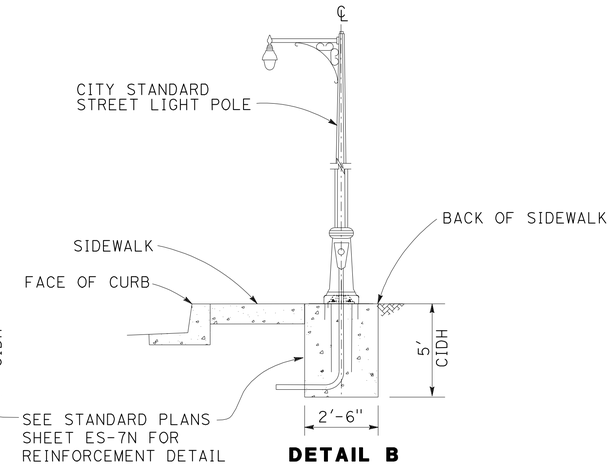
CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

NOTES:

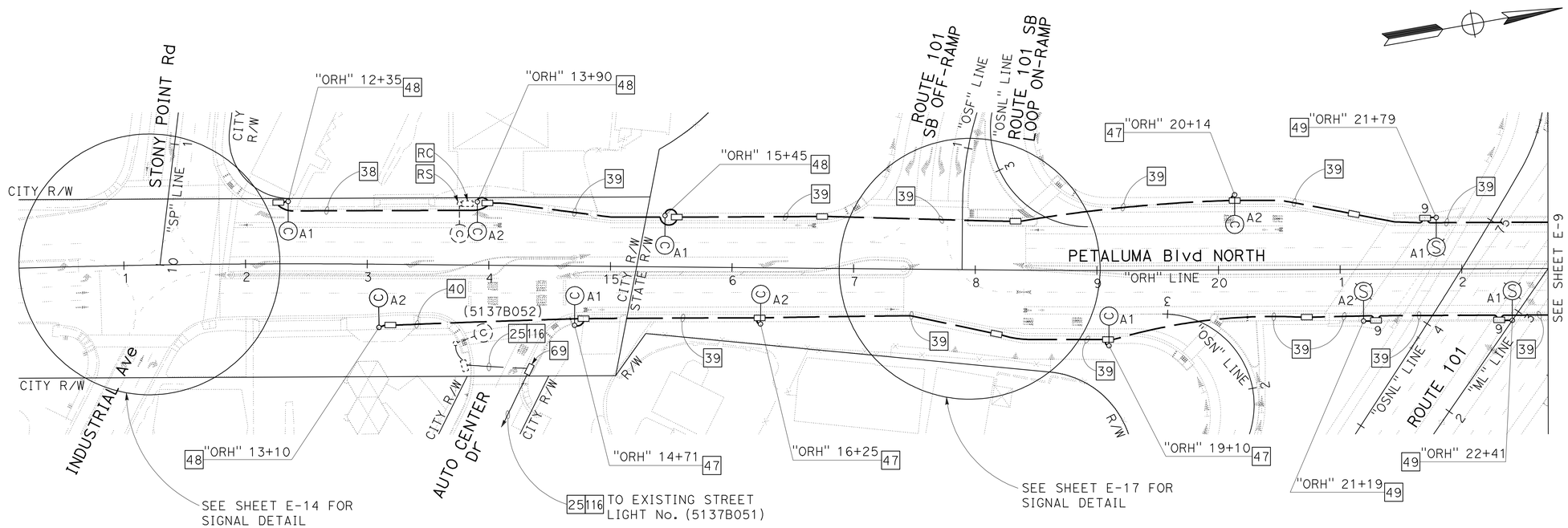
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR ADDITIONAL DETAILS SEE SHEET E-33 FOR CITY STANDARD ORNAMENTAL STREET LIGHT DETAILS.



DETAIL A
POLE LOCATION
6' OR LESS SIDEWALK
NO SCALE



DETAIL B
POLE LOCATION
MORE THAN 6' SIDEWALK, UNLESS OTHERWISE SHOWN ON THE PLAN
NO SCALE



LIGHTING (CITY STREET)

SCALE: 1" = 50'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

E-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: SIEW KONG
CHECKED BY: KIN CHAN
REVISED BY
DATE REVISED

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 08:59

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	277	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

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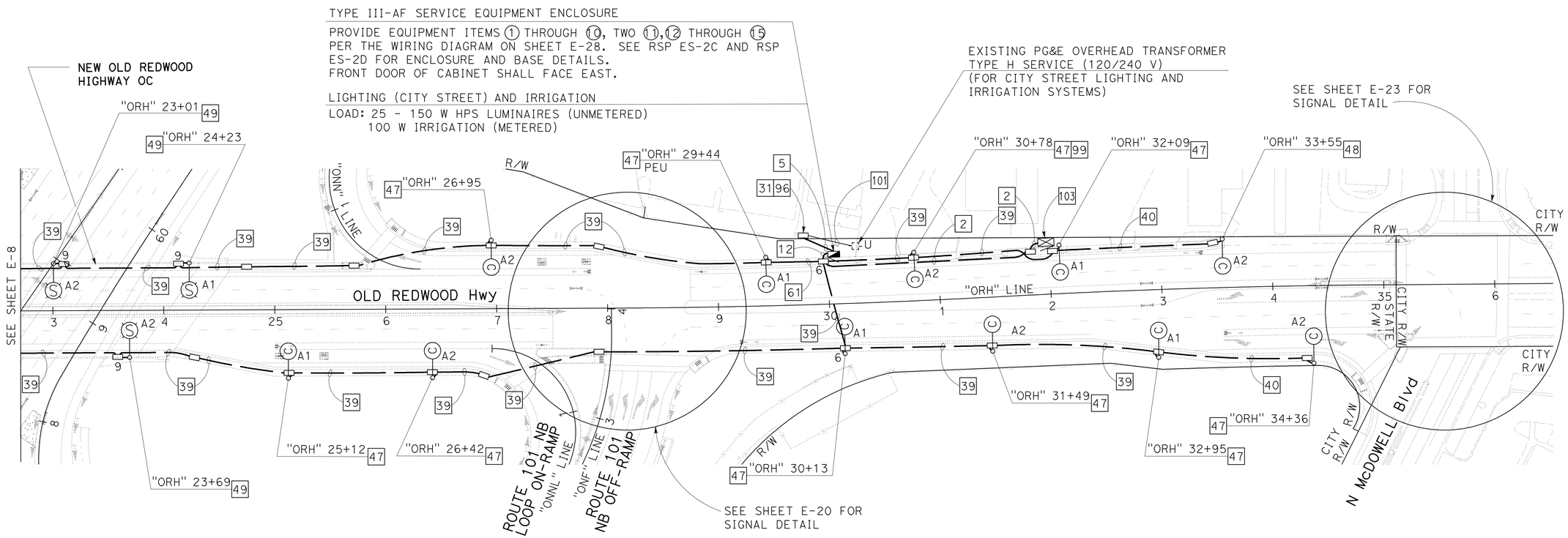
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. SEE SHEETS E-8 AND E-33 FOR CITY STANDARD ORNAMENTAL STREET LIGHT DETAILS.



ELECTRIC SERVICE (IRRIGATION) LIGHTING (CITY STREET)

SCALE: 1" = 50'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

E-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: SIEW KONG
CHECKED BY: KIN CHAN
REVISED BY
DATE REVISED

LAST REVISION 04-19-12
DATE PLOTTED => 19-SEP-2012
TIME PLOTTED => 10:21

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	278	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

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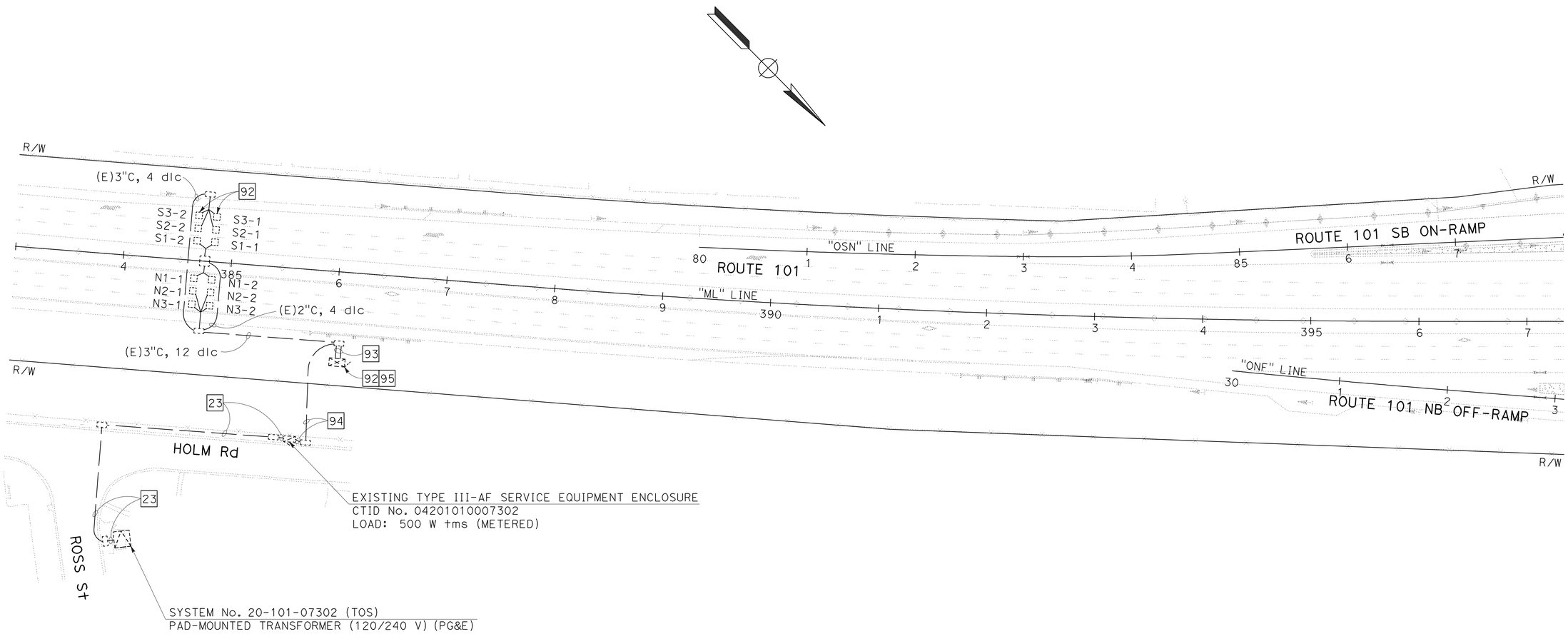
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

NO ELECTRICAL WORK ON THIS SHEET, FOR INFORMATION ONLY



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

TRAFFIC OPERATIONS SYSTEM

SCALE: 1" = 50'

E-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: SIEW KONG
CHECKED BY: KIN CHAN
REVISED BY
DATE REVISED

LAST REVISION 04-19-12 | DATE PLOTTED => 19-SEP-2012 | TIME PLOTTED => 10:21

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	279	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

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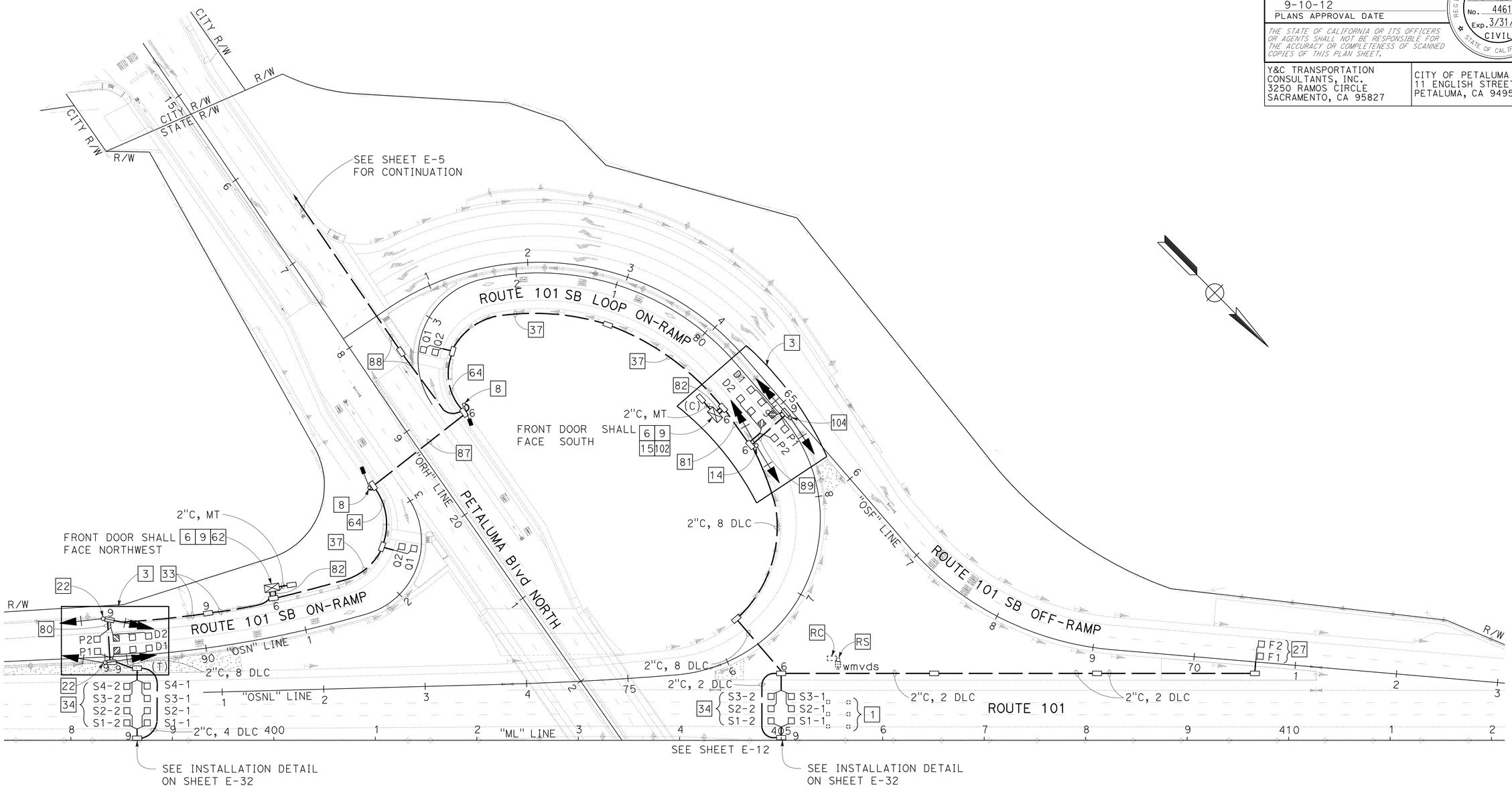
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

TRAFFIC OPERATIONS SYSTEM

SCALE: 1" = 50'

E-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN

CALCULATED-DESIGNED BY: SIEW KONG

CHECKED BY: KIN CHAN

REVISED BY

DATE REVISED

LAST REVISION 04-19-12 DATE PLOTTED => 17-SEP-2012 TIME PLOTTED => 13:35

BORDER LAST REVISED 7/2/2010

USERNAME => s124496
DGN FILE => 0400020652ua011.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0751

PROJECT NUMBER & PHASE 04000206521

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	280	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

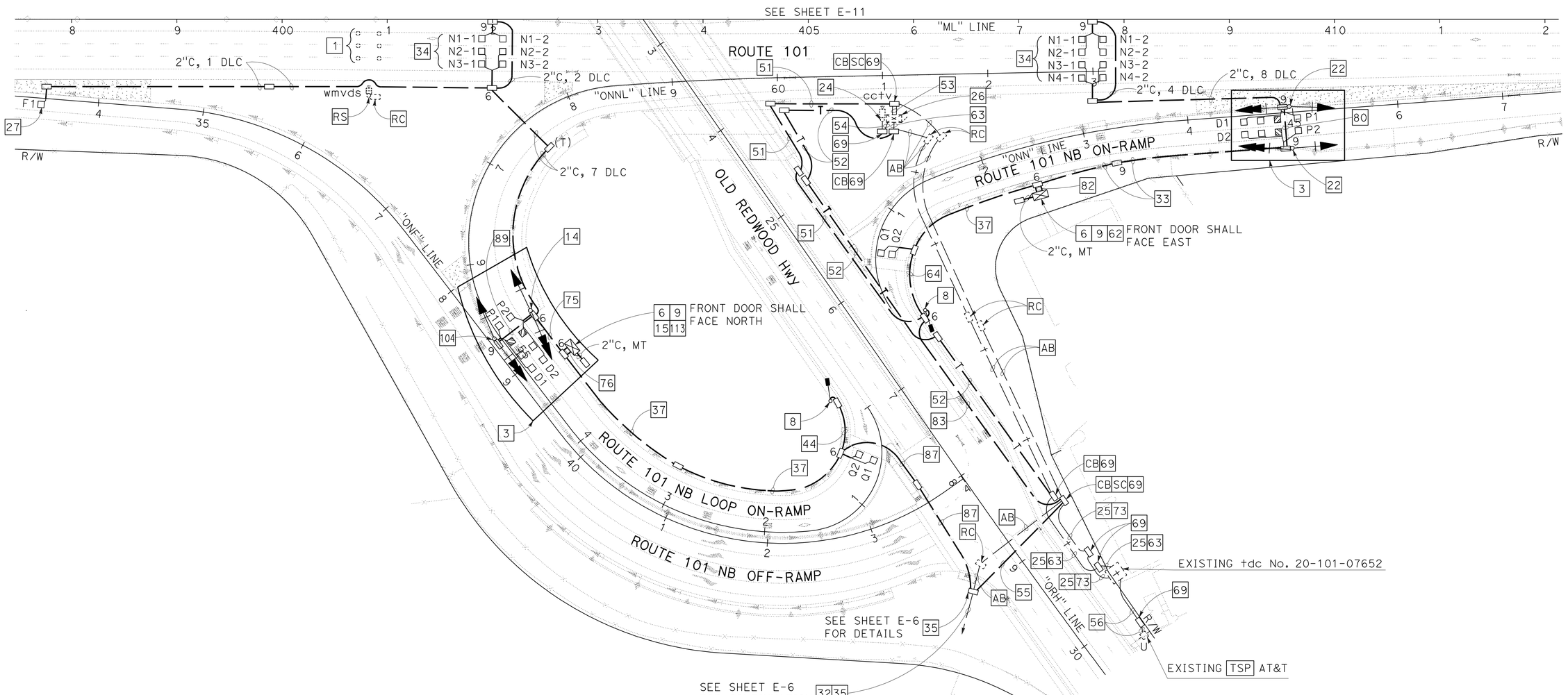
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

TRAFFIC OPERATIONS SYSTEM

SCALE: 1" = 50'

E-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: SIEW KONG
CHECKED BY: KIN CHAN
REVISED BY
DATE REVISED

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 08:59

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	281	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

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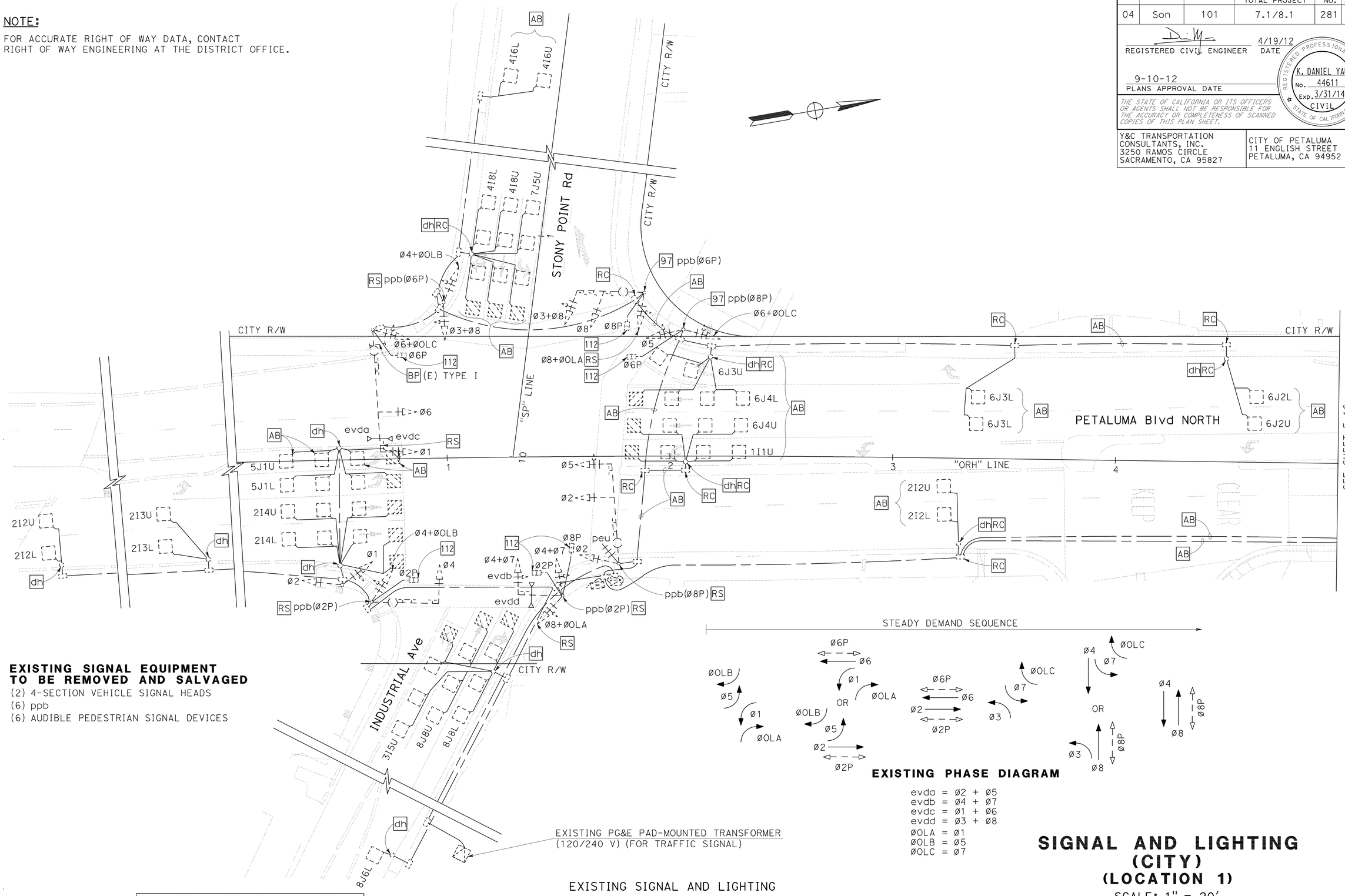
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



EXISTING SIGNAL EQUIPMENT TO BE REMOVED AND SALVAGED

(2) 4-SECTION VEHICLE SIGNAL HEADS
(6) ppb
(6) AUDIBLE PEDESTRIAN SIGNAL DEVICES

EXISTING PHASE DIAGRAM

evda = Ø2 + Ø5
evdb = Ø4 + Ø7
evdc = Ø1 + Ø6
evdd = Ø3 + Ø8
ØOLA = Ø1
ØOLB = Ø5
ØOLC = Ø7

EXISTING SIGNAL AND LIGHTING

APPROVED FOR ELECTRICAL WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

SIGNAL AND LIGHTING (CITY)
(LOCATION 1)

SCALE: 1" = 20'

E-13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: SIEW KONG
CHECKED BY: KIN CHAN
REVISED BY
DATE REVISED

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 09:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	282	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

NOTE:

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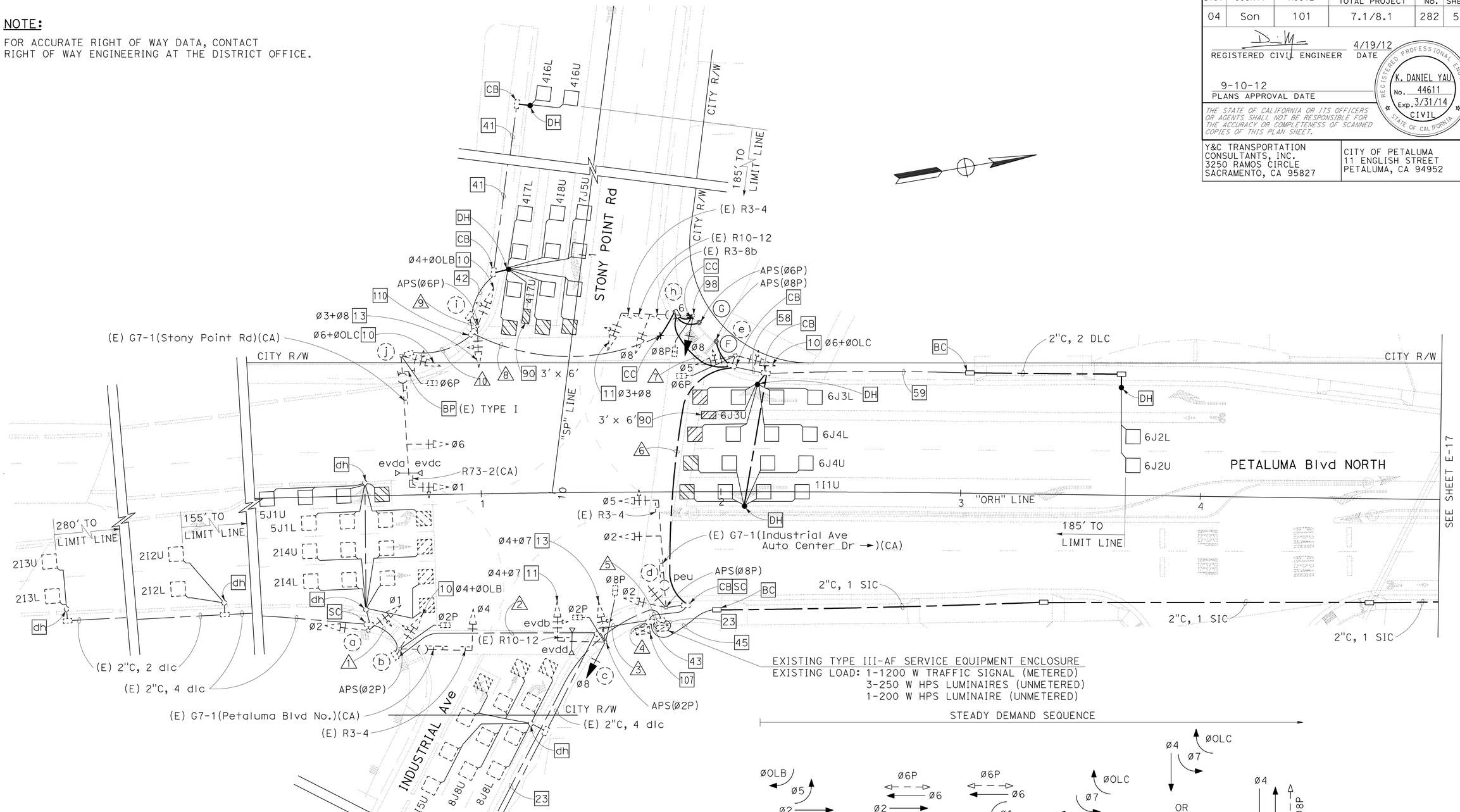

PROPOSED PHASE DIAGRAM

evda = Ø2 + Ø5
evdb = Ø4 + Ø7
evdc = Ø1 + Ø6
evdd = Ø3 + Ø8
ØOLB = Ø5
ØOLC = Ø7

NOTE: Ø1 AND Ø5 ARE MUTUALLY EXCLUSIVE.

SIGNAL AND LIGHTING (CITY) (LOCATION 1)

SCALE: 1" = 20'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

E-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: SIEW KONG
CHECKED BY: KIN CHAN
REVISED BY
DATE REVISED

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 09:00

CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR SCHEDULE	No. OF CONDUCTORS — CONDUIT RUN NUMBER 1	2	3	4	5	6	7	8	9	10
No. 14 CONDUCTORS										
Ø1	3	3	3	6	3	3	3	3*		3
Ø2	3	3	3	6	3					
Ø3				2	2	2	2	2*	2	
Ø4		3	3	6	3	3	3	3*	3	
Ø5				6	6	3				
Ø6				6	6	6	3	3*		3
Ø7			2	2						
Ø8			3	6	3	3	3	3*	3	
ØOLA			1-	2-	1-					
ØOLB		1	1	2	1	1	1	1*	1	
ØOLC				1	1	1	1	1*		1
Ø2P		2	4	4						
Ø6P				4	4	4	2	2*		2
Ø8P			2	4	2	2	2			
APS(Ø2P)		1	2	2						
APS(Ø6P)				2	2	2	2	1*	1	
APS(Ø8P)				2	2	1				
PPB COMMON		1	1	2	1	1	1	1*	1	
PHOTOELECTRIC UNIT					3					
SPARES	3	3	3	6	3	3	3	3*	3	3
TOTAL No. 14	9	17	27	69	45	35	27	23	14	12
No. 8 CONDUCTORS										
LIGHTING		2	2		2	2	2	2*		2
SIGNAL NEUTRAL	1	1	1	1	1	1	1	1*	1	1
TOTAL No. 8	1	3	3	1	3	3	3	3	1	3
No. 6 CONDUCTORS										
SERVICE TO CONTROLLER				2						
TOTAL No. 6				2						
DETECTOR CABLES (DLC)										
1I1U				1*	1*	1				
2I2U/2I2L	2	2	2	2						
2I3U/2I3L	2	2	2	2						
2I4U/2I4L	2	2	2	2						
3I5U			1	1						
4I6U/4I6L				2*	2*	2	2	2*	2*	
4I7U/4I7L				~~1*~~	~~1*~~	2	2	~~1*~~	~~1*~~	
4I8U				1*	1*	1	1	1*	1*	
5J1U/5J1L	2	2	2	2						
6J2U/6J2L				2*	2*	2				
6J3U/6J3L				2*	2*	2				
6J4U				1*	1*	1				
6J4L				1+	1+	1				
7J5U				1*	1*	1	1	1*	1*	
8J6L			1	1						
8J8U/8J8L			2	2						
TOTAL DETECTOR CABLES	8	8	12	25	13	13	6	6	6	
EMERGENCY VEHICLE CABLES										
evda				1•	1•	1•	1•	1•		1
evdb			1	1						
evdc				1•	1•	1•	1•	1•		1
evdd			1	1						
ANTENNA COAX CABLE (WIRELESS SIC)				1	1					
APS CABLE			1+		1+		2			1+
SIGNAL INTERCONNECT CABLE (SIC)				1*						
CONDUIT SIZE (INCHES)	2½	3	3	3-3	3½	3½	3	3	2	2
NEW/EXISTING CONDUIT	E	E	E	E	E	N	N	E	E	E
% FILL	17	15	25	24	25	20	20	17	23	19

* REPLACE EXISTING CONDUCTORS/CABLES WITH NEW.
\+ ADD NEW CONDUCTORS/CABLES IN EXISTING CONDUIT.
\- REMOVE EXISTING CONDUCTORS FROM EXISTING CONDUIT.
• INSTALL WITHDRAWN CABLE IN NEW/EXISTING CONDUIT.

TRAFFIC SIGNAL CONDUCTORS FOR PHASE OVERLAPS SHALL BE DOUBLE STRIPED AS FOLLOWS:

SIGNAL PHASE	BASE COLOR	DOUBLE STRIPE COLOR
OLA	RE, YE, BRN	BLACK/BLUE
OLB	RE, YE, BRN	BLACK/ORANGE
OLC	RE, YE, BRN	BLACK/PURPLE
OLD	RE, YE, BRN	BLACK/GRAY

DETAIL A

POLE AND EQUIPMENT SCHEDULE

No.	STANDARD TYPE	STANDARD SMA (FEET)	STANDARD LMA (FEET)	VEHICLE SIGNAL MOUNTING MAST ARM	VEHICLE SIGNAL MOUNTING POLE	PEDESTRIAN SIGNAL MOUNTING ++	APS ø	APS ARROW	HPS LUMINAIRE (WATTS)	REMARKS *
(a)	EXISTING 1-B				TV-2-T					ALL EXISTING EQUIPMENT TO REMAIN.
(b)	EXISTING 19-3-80	30′	15′	mas	SV-1-T	SP-1-T	NEW 2P	←	250	REPLACE EXISTING PEDESTRIAN PUSH BUTTON WITH APS.
(c)	EXISTING 18-1-70	20′		mas-5A	NEW SV-2-T	SP-2-T	NEW 2P	→		EXISTING evdb AND evdd TO REMAIN. REPLACE EXISTING 5-SECTION SIGNAL HEAD AND SIGNAL MOUNTING WITH NEW 12" 3-SECTION SIGNAL HEAD AND SIGNAL MOUNTING AS INDICATED ON THE PLAN. REPLACE EXISTING PEDESTRIAN PUSH BUTTON WITH APS.
(d)	EXISTING 26-3-80	45′	15′	mat mas	SV-1-T		NEW 8P	←	200	REPLACE EXISTING PEDESTRIAN PUSH BUTTON WITH APS.
(e)	EXISTING 1-B				TV-2-T	SP-1-T				RS EXISTING PEDESTRIAN PUSH BUTTON. COVER REMAINING HOLE WITH STEEL PLATE.
(F)	PPB POST						8P	→		
(G)	PPB POST						6P	←		
(h)	EXISTING 19-3-80	30′	15′	mas-5A mas	SV-1-T	SP-1-T			250	RS EXISTING PEDESTRIAN PUSH BUTTON. COVER REMAINING HOLE WITH STEEL PLATE. REPLACE EXISTING 5-SECTION SIGNAL HEAD AND SIGNAL MOUNTING WITH NEW 12" 3-SECTION SIGNAL HEAD AND SIGNAL MOUNTING AS INDICATED ON THE PLAN. SEE NOTE 119 ON SHEET E-14.
(i)	EXISTING 1-B				TV-2-T		NEW 6P	→		REPLACE EXISTING PEDESTRIAN PUSH BUTTON WITH APS.
(j)	EXISTING 29-5-70	55′	15′	mat mas	SV-1-T	SP-1-T			250	EXISTING evda AND evdc TO REMAIN. REPLACE EXISTING R3-4 SIGN WITH NEW R73-2(CA) SIGN.

* OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS. FOR TYPE OF STANDARD, VEHICLE AND PEDESTRIAN SIGNAL MOUNTING, SEE STANDARD PLANS.
++ RS EXISTING AUDIBLE PEDESTRIAN SIGNAL DEVICE FROM EXISTING PEDESTRIAN SIGNAL HEADS. INSTALL APS CONTROL UNIT IN ALL PEDESTRIAN SIGNAL HEADS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	283	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE
9-10-12 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

REVISED BY: SIEW KONG — DATE REVISED: KIN CHAN
CALCULATED-DESIGNED BY — CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

SIGNAL AND LIGHTING (CITY) (LOCATION 1)

(CONDUCTOR, POLE AND EQUIPMENT SCHEDULES)

E-15

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 09:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	284	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

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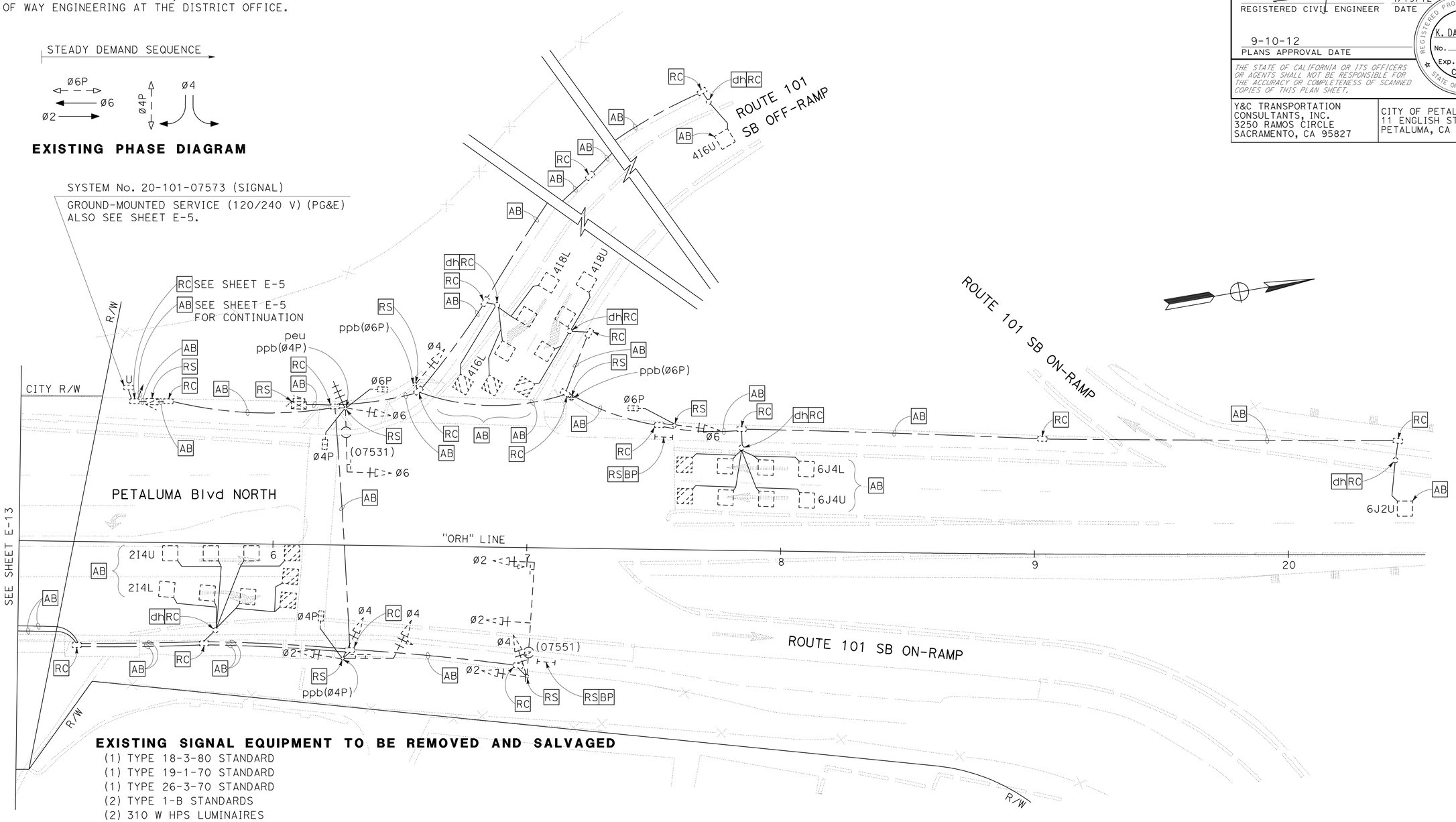
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



EXISTING SIGNAL EQUIPMENT TO BE REMOVED AND SALVAGED

(1) TYPE 18-3-80 STANDARD
(1) TYPE 19-1-70 STANDARD
(1) TYPE 26-3-70 STANDARD
(2) TYPE 1-B STANDARDS
(2) 310 W HPS LUMINAIRES
(11) 3-SECTION VEHICLE SIGNAL HEADS
(4) PEDESTRIAN SIGNAL HEADS
(4) AUDIBLE PEDESTRIAN SIGNAL DEVICES
(4) ppb
(1) ppb POST
(2) TYPE I PEDESTRIAN BARRICADES
(1) MODEL 170 CONTROLLER ASSEMBLY WITH MODEL 332 CABINET
(1) bbs
(1) TYPE III-AF SERVICE EQUIPMENT ENCLOSURE
(1) ANTENNA - TO THE CITY OF PETALUMA

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

EXISTING SIGNAL AND LIGHTING

APPROVED FOR ELECTRICAL WORK ONLY

SIGNAL AND LIGHTING (LOCATION 2)

SCALE: 1" = 20'

E-16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: SIEW KONG
CHECKED BY: KIN CHAN
REVISED BY
DATE REVISED

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 09:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	285	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

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3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

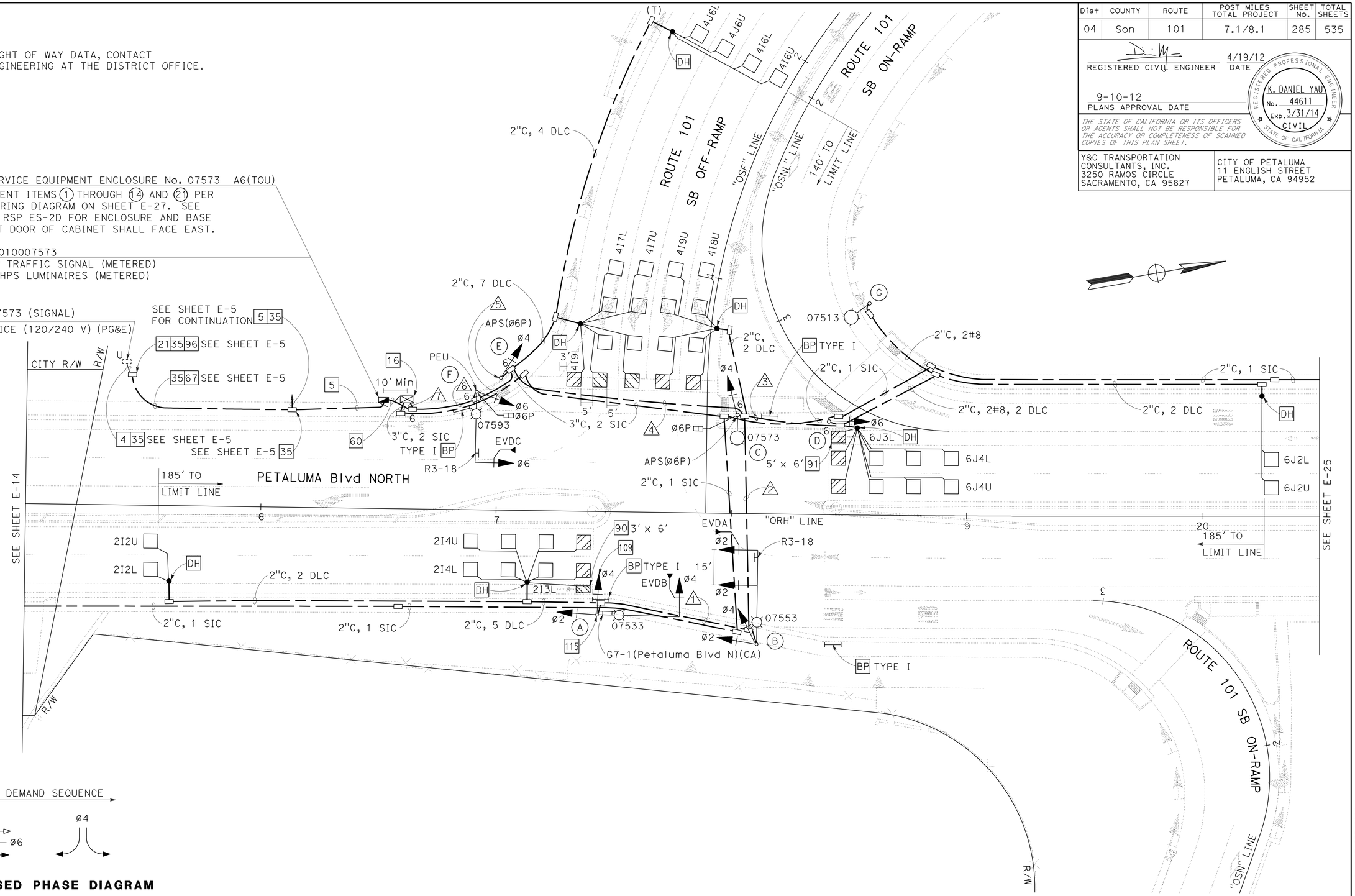
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. 07573 A6(TOU)
PROVIDE EQUIPMENT ITEMS (1) THROUGH (14) AND (21) PER THE SERVICE WIRING DIAGRAM ON SHEET E-27. SEE RSP ES-2C AND RSP ES-2D FOR ENCLOSURE AND BASE DETAILS. FRONT DOOR OF CABINET SHALL FACE EAST.

CTID No. 04201010007573
LOAD: 1-1200 W TRAFFIC SIGNAL (METERED)
5-200 W HPS LUMINAIRES (METERED)

SYSTEM No. 20-101-07573 (SIGNAL)
GROUND-MOUNTED SERVICE (120/240 V) (PG&E)
SEE SHEET E-5.



STEADY DEMAND SEQUENCE

Ø6P Ø6 Ø2 Ø4

PROPOSED PHASE DIAGRAM

EVDA = Ø2
EVDB = Ø4
EVDC = Ø6

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

SIGNAL AND LIGHTING (LOCATION 2)

SCALE: 1" = 20'

E-17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: SIEW KONG
CHECKED BY: KIN CHAN
REVISED BY
DATE REVISED

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 09:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	286	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR SCHEDULE	No. OF CONDUCTORS CONDUIT RUN NUMBER 1	2	3	4	5	6	7
No. 14 CONDUCTORS							
Ø2	3	3		3	3	3	3
Ø4	3	3		3	3	3	3
Ø6			3	3	3	3	3
Ø6P				2	2	2	2
APS(Ø6P)				2	2	2	2
PHOTOELECTRIC UNIT						3	
SPARES	3	3	3	6	6	6	6
TOTAL No. 14	9	9	6	19	19	22	19
No. 8 CONDUCTORS							
LIGHTING	2	2	2	2	2	2	
SIGNAL NEUTRAL	1	1	1	1	1	1	1
TOTAL No. 8	3	3	3	3	3	3	1
No. 6 CONDUCTORS							
SERVICE TO CONTROLLER							2
TOTAL No. 6							2
DETECTOR CABLES (DLC)							
2I2U/2I2L	2	2		2	2	2	2
2I3L	1	1		1	1	1	1
2I4U/2I4L	2	2		2	2	2	2
4I6U/4I6L					2	2	2
4J6U/4J6L					2	2	2
4I7U/4I7L					2	2	2
4I8U				1	1	1	1
4I9U				1	1	1	1
4I9L					1	1	1
6J2U/6J2L			2	2	2	2	2
6J3L			1	1	1	1	1
6J4U/6J4L			2	2	2	2	2
TOTAL DETECTOR CABLES	5	5	5	12	19	19	19
EMERGENCY VEHICLE CABLES							
EVDA		1		1	1	1	1
EVDB	1	1		1	1	1	1
EVDC						1	1
APS CABLE					1		
CONDUIT SIZE (INCHES)	3	3	2½	3½	2-3	2-3	2-3
NEW/EXISTING CONDUIT	N	N	N	N	N	N	N
% FILL	11	12	14	16	17	17	17

POLE AND EQUIPMENT SCHEDULE

No.	STANDARD TYPE	SMA (FEET)	LMA (FEET)	VEHICLE SIGNAL MOUNTING MAST ARM	POLE	PEDESTRIAN SIGNAL MOUNTING ++	APS Ø	APS ARROW	HPS LUMINAIRE (WATTS)	REMARKS *
A	24-4-100	35′	15′	MAS	SV-1-T SV-1-T				200	IS G7-1(Petaluma Blvd N)(CA) INSTALL EVDB ON VEHICLE SIGNAL HEAD. SEE NOTES 109 AND 115 ON SHEET E-17.
B	26-4-100	40′	15′	MAS MAS	SV-2-TD				200	IS R3-18 INSTALL EVDA ON VEHICLE SIGNAL HEAD.
C	15TS		15′		SV-1-T	SP-1-T	6P	→	200	
D	1-B				TV-1-T					
E	1-B				TV-1-T		6P	→		
F	19-4-100	30′	15′	MAS	SV-1-T	SP-1-T			200	IS R3-18 INSTALL PEU ON TOP OF SIGNAL STANDARD. INSTALL EVDC ON VEHICLE SIGNAL HEAD.
G	15		12′						200	

*OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS. FOR TYPE OF STANDARD, VEHICLE AND PEDESTRIAN SIGNAL MOUNTING, SEE STANDARD PLANS.

++ INSTALL APS CONTROL UNIT IN ALL PEDESTRIAN SIGNAL HEADS.

REVISED BY | DATE REVISED
SIEW KONG | KIN CHAN
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

SIGNAL AND LIGHTING (LOCATION 2)

(CONDUCTOR, POLE AND EQUIPMENT SCHEDULES)

E-18

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 09:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	287	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

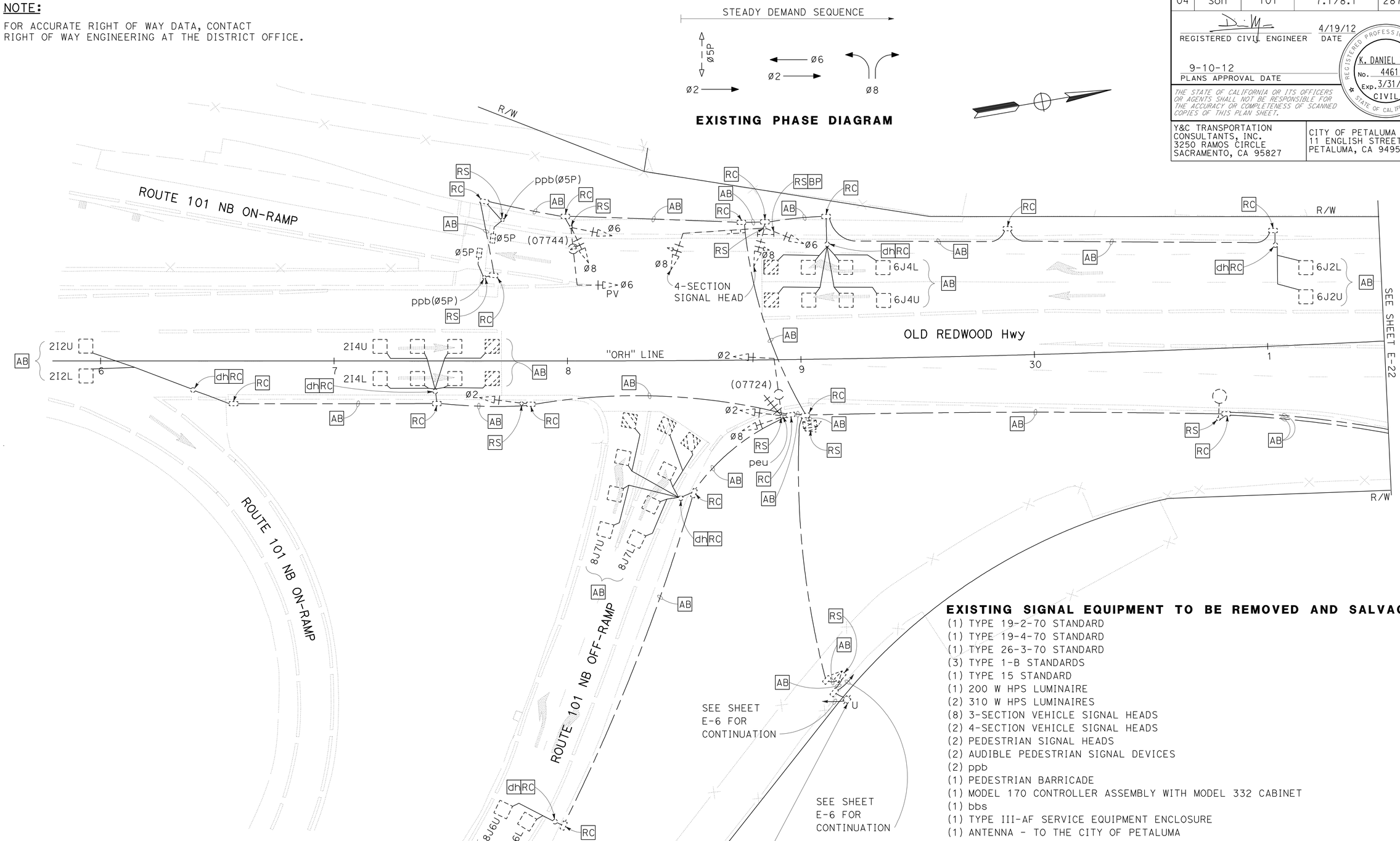
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



EXISTING SIGNAL EQUIPMENT TO BE REMOVED AND SALVAGED

(1) TYPE 19-2-70 STANDARD
(1) TYPE 19-4-70 STANDARD
(1) TYPE 26-3-70 STANDARD
(3) TYPE 1-B STANDARDS
(1) TYPE 15 STANDARD
(1) 200 W HPS LUMINAIRE
(2) 310 W HPS LUMINAIRES
(8) 3-SECTION VEHICLE SIGNAL HEADS
(2) 4-SECTION VEHICLE SIGNAL HEADS
(2) PEDESTRIAN SIGNAL HEADS
(2) AUDIBLE PEDESTRIAN SIGNAL DEVICES
(2) ppb
(1) PEDESTRIAN BARRICADE
(1) MODEL 170 CONTROLLER ASSEMBLY WITH MODEL 332 CABINET
(1) bbs
(1) TYPE III-AF SERVICE EQUIPMENT ENCLOSURE
(1) ANTENNA - TO THE CITY OF PETALUMA

SYSTEM No. 20-101-07724 (SIGNAL)
TYPE H SERVICE (120/240 V) (PG&E)
ALSO SEE SHEET E-6.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

EXISTING SIGNAL AND LIGHTING

APPROVED FOR ELECTRICAL WORK ONLY

SIGNAL AND LIGHTING (LOCATION 3)

SCALE: 1" = 20'

E-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: SIEW KONG
CHECKED BY: KIN CHAN
REVISED BY
DATE REVISED

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 09:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	288	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

NOTE:

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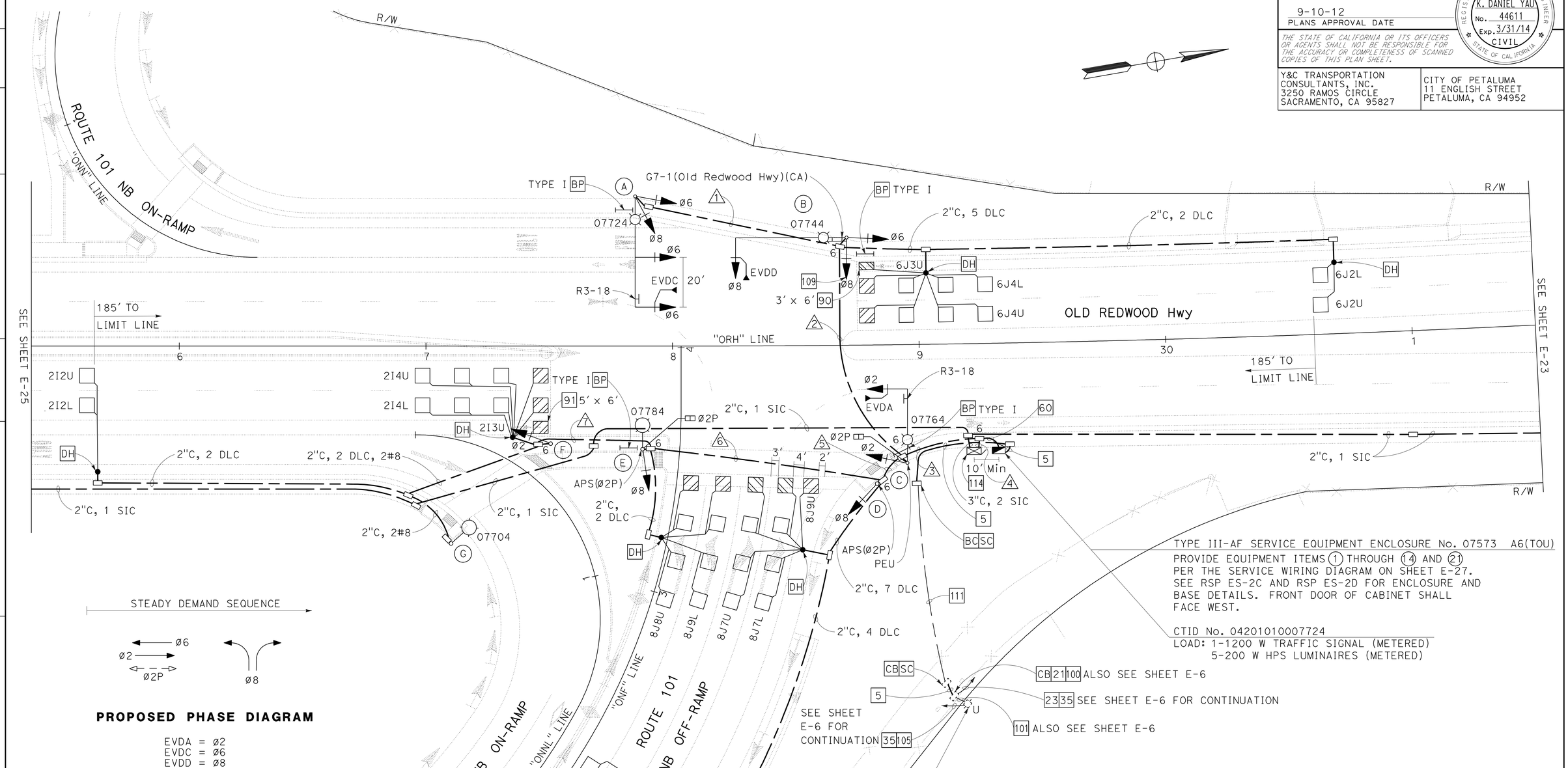

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

SIGNAL AND LIGHTING (LOCATION 3)

SCALE: 1" = 20'

E-20

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: SIEW KONG
CHECKED BY: KIN CHAN
REVISED BY
DATE REVISED

LAST REVISION 04-19-12
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	289	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR SCHEDULE	No. OF CONDUCTORS CONDUIT RUN NUMBER 1	2	3	4	5	6	7
No. 14 CONDUCTORS							
Ø2			3	3	3	3	3
Ø6	3	3	3	3			
Ø8	3	3	6	6	3	3	
Ø2P			2	2	2	2	
APS(Ø2P)			2	2	2	2	
PHOTOELECTRIC UNIT			3				
SPARES	3	3	6	6	3	3	3
TOTAL No. 14	9	9	25	22	13	13	6
No. 8 CONDUCTORS							
LIGHTING	2	2	2		2	2	2
SIGNAL NEUTRAL	1	1	1	1	1	1	1
TOTAL No. 8	3	3	3	1	3	3	3
No. 6 CONDUCTORS							
SERVICE TO CONTROLLER				2			
TOTAL No. 6				2			
DETECTOR CABLES (DLC)							
2I2U/2I2L			2	2	2	2	2
2I3U			1	1	1	1	1
2I4U/2I4L			2	2	2	2	2
6J2U/6J2L		2	2	2			
6J3U		1	1	1			
6J4U/6J4L		2	2	2			
8I6U/8I6L			2	2	2		
8J6U/8J6L			2	2	2		
8I7U/8I7L			2	2	2		
8J8U			1	1	1	1	
8J9U			1	1	1		
8J9L			1	1	1	1	
TOTAL DETECTOR CABLES		5	19	19	14	7	5
EMERGENCY VEHICLE CABLES							
EVDA			1	1			
EVDC	1	1	1	1			
EVDD		1	1	1			
APS CABLE					1		
CONDUIT SIZE (INCHES)	2	3	2-3	2-3	3½	3	2½
NEW/EXISTING CONDUIT	N	N	N	N	N	N	N
% FILL	13	12	17	17	16	13	14

POLE AND EQUIPMENT SCHEDULE

No.	STANDARD TYPE	SMA (FEET)	LMA (FEET)	VEHICLE SIGNAL MOUNTING MAST ARM	POLE	PEDESTRIAN SIGNAL MOUNTING ++	APS Ø	APS ARROW	HPS LUMINAIRE (WATTS)	REMARKS *
A	26-4-100	45′	15′	MAS MAS	SV-2-TD				200	IS R3-18 INSTALL EVDC ON VEHICLE SIGNAL HEAD.
B	26-4-100	45′	15′	MAS	SV-2-TB				200	IS G7-1(Old Redwood Hwy)(CA) INSTALL EVDD ON VEHICLE SIGNAL HEAD. SEE NOTE 109 ON SHEET E-20.
C	19-4-100	30′	15′	MAS	SV-1-T	SP-1-T			200	IS R3-18 INSTALL PEU ON TOP OF SIGNAL STANDARD. INSTALL EVDA ON VEHICLE SIGNAL HEAD.
D	1-B				TV-1-T		2P	→		
E	15TS		15′		SV-1-T	SP-1-T	2P	→	200	
F	1-B				TV-1-T					
G	15		15′						200	

*OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS. FOR TYPE OF STANDARD, VEHICLE AND PEDESTRIAN SIGNAL MOUNTING, SEE STANDARD PLANS.

++ INSTALL APS CONTROL UNIT IN ALL PEDESTRIAN SIGNAL HEADS.

REVISED BY | DATE REVISED
SIEW KONG | KIN CHAN
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

SIGNAL AND LIGHTING (LOCATION 3)

(CONDUCTOR, POLE AND EQUIPMENT SCHEDULES)

E-21

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 09:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	290	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

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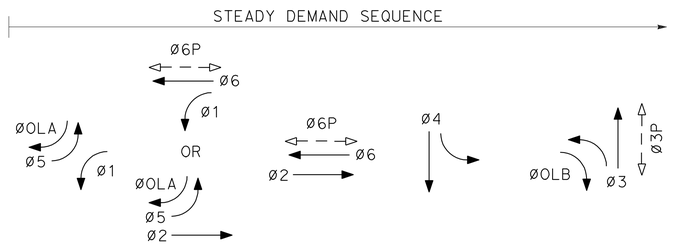
Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

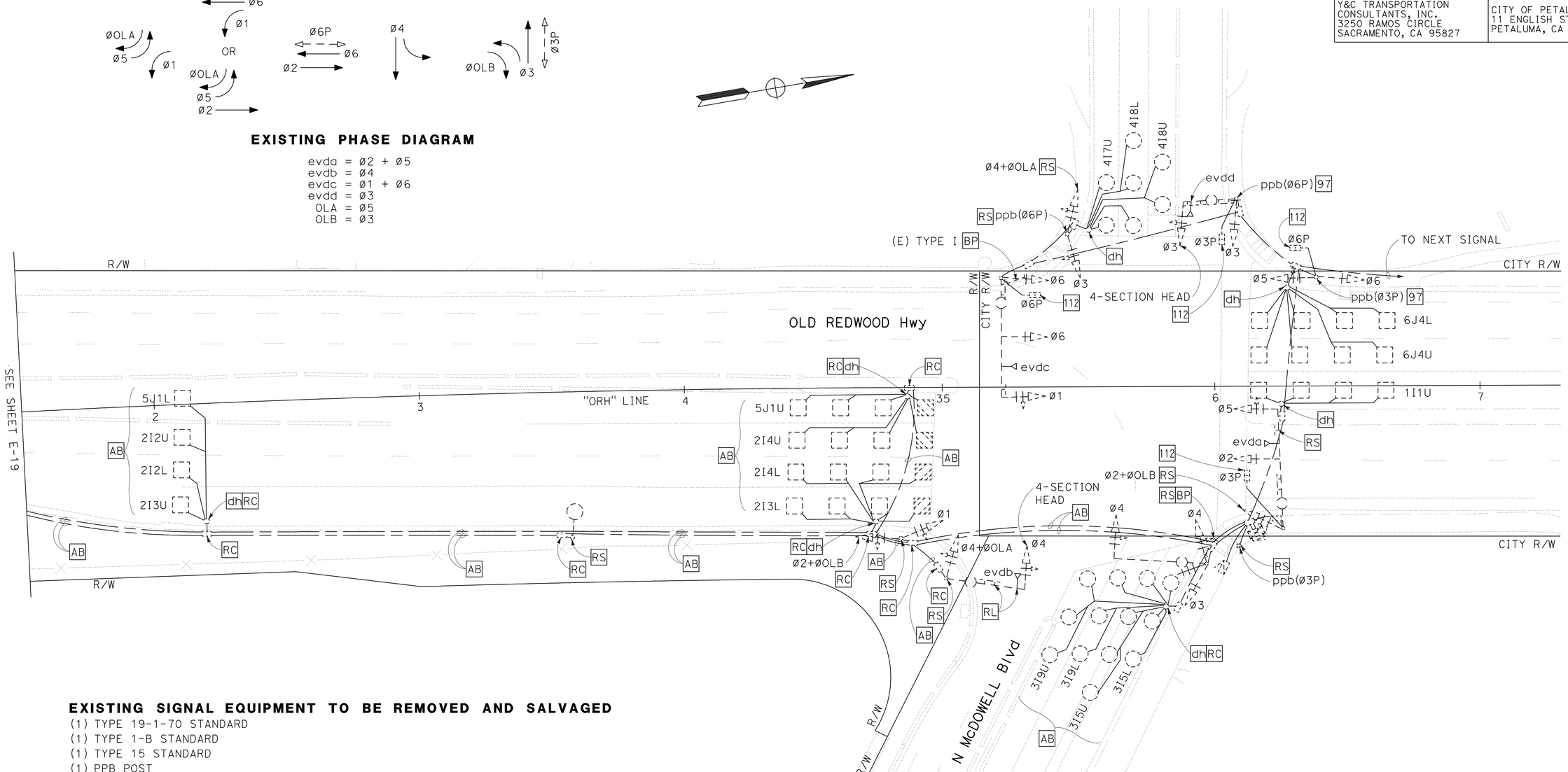
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



EXISTING PHASE DIAGRAM

evda = Ø2 + Ø5
evdb = Ø4
evdc = Ø1 + Ø6
evdd = Ø3
OLA = Ø5
OLB = Ø3



EXISTING SIGNAL EQUIPMENT TO BE REMOVED AND SALVAGED

(1) TYPE 19-1-70 STANDARD
(1) TYPE 1-B STANDARD
(1) TYPE 15 STANDARD
(1) PPB POST
(2) 200 W HPS LUMINAIRES
(1) 3-SECTION VEHICLE SIGNAL HEAD
(1) 4-SECTION VEHICLE SIGNAL HEAD
(4) 5-SECTION VEHICLE SIGNAL HEADS
(4) ppb
(4) AUDIBLE PEDESTRIAN SIGNAL DEVICES
(2) TYPE I PEDESTRIAN BARRICADES

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

EXISTING SIGNAL AND LIGHTING

APPROVED FOR ELECTRICAL WORK ONLY

SIGNAL AND LIGHTING (CITY) (LOCATION 4)

SCALE: 1" = 20'

E-22

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: SIEW KONG
CHECKED BY: KIN CHAN
REVISED BY
DATE REVISED

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 09:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	291	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

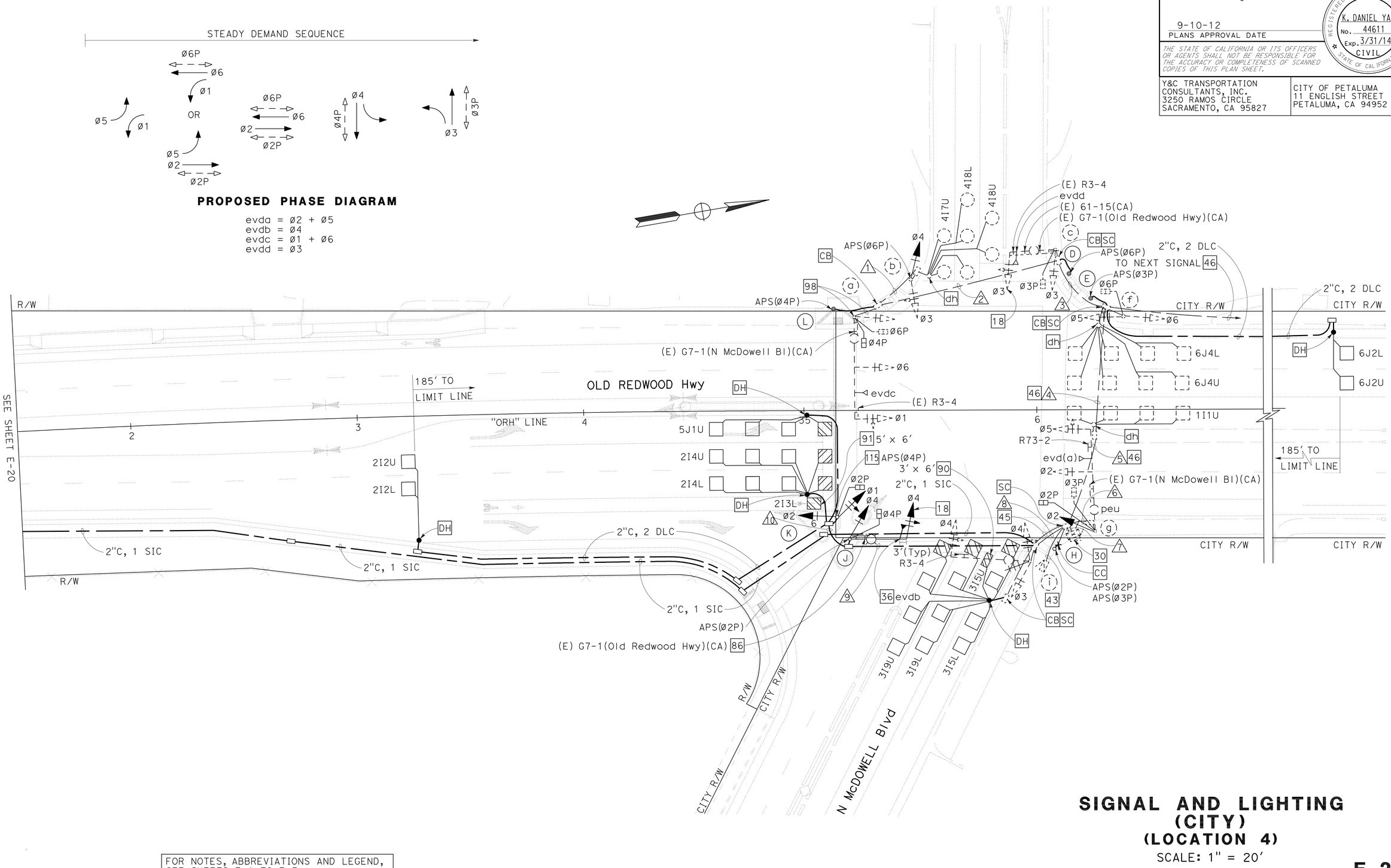
CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

PROPOSED PHASE DIAGRAM

evda = Ø2 + Ø5
evdb = Ø4
evdc = Ø1 + Ø6
evdd = Ø3



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

SIGNAL AND LIGHTING (CITY) (LOCATION 4)

SCALE: 1" = 20'

E-23

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: SIEW KONG
CHECKED BY: KIN CHAN
REVISED BY
DATE REVISED

LAST REVISION 04-19-12
DATE PLOTTED => 13-SEP-2012
TIME PLOTTED => 09:25

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	292	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

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3250 RAMOS CIRCLE
SACRAMENTO, CA 95827

CITY OF PETALUMA
11 ENGLISH STREET
PETALUMA, CA 94952

CONDUCTOR AND CONDUIT SCHEDULE

CONDUCTOR SCHEDULE	No. OF CONDUCTORS CONDUIT RUN NUMBER 1	2	3	4	5	6	7	8	9	10
No. 14 CONDUCTORS										
Ø1		3	3	3	3		6	3	3	3
Ø2						3	6	3	3	3
Ø3	3	3	3	3	3		6	3		
Ø4	3	3	3	3	3		6	3	3	
Ø5				3	3	3	3			
Ø6		3	3	3	3		3			
ØOLA	2-	2-	2-	2-	2-		4-	2-		
ØOLB						2-	4-	2-		
Ø2P						2+	4+	2+	2	2
Ø3P			2	2	2	2	2			
Ø4P		2+	2+	2+	2+		4+	2+	2	
Ø6P		2	2	2	2		2			
APS(Ø2P)							2+	1+	1	
APS(Ø3P)				1	1		1			
APS(Ø4P)		1+	1+	1+	1+		2+	1+	1	1
APS(Ø6P)	1	1	1	1	1		1			
PPB COMMON	1	1	1	1	1		1	1+	1	1
PHOTOELECTRIC UNIT						3				
SPARES	3	3	3	3	3	3	6	3	3	3
TOTAL No. 14	11	22	24	28	28	16	55	22	19	13
No. 8 CONDUCTORS										
LIGHTING		2	2	2	2	2		2	2	
SIGNAL NEUTRAL	1	1	1	1	1	1	1	1	1	1
TOTAL No. 8	1	3	3	3	3	3	1	3	3	1
No. 6 CONDUCTORS										
SERVICE TO CONTROLLER							2			
TOTAL No. 6							2			
DETECTOR CABLES (DLC)										
1I1U					1		1			
2I2U/2I2L							2*	2*	2	2
2I3U							1-	1-		
2I3L							1*	1*	1	1
2I4U/2I4L							2*	2*	2	2
3I5U/3I5L							2	2		
3I9U/3I9L							2	2		
4I7U	1	1	1	1	1		1			
4I8U/4I8L	2	2	2	2	2		2			
5J1U							1*	1*	1	1
5J1L							1-	1-		
6J2U/6J2L				2+	2+		2+			
6J4U/6J4L				2	2		2			
TOTAL DETECTOR CABLES	3	3	3	7	8		18	10	6	6
EMERGENCY VEHICLE CABLES										
EVDA						1	1			
EVDB							1*	1*	1	
EVDC		1	1	1	1		1			
EVDD			1	1	1		1			
ANTENNA COAX CABLE (WIRELESS SIC)							1	1		
SIGNAL INTERCONNECT CABLE (SIC)							1*/1			
APS CABLE			2+			1+				2+
CONDUIT SIZE (INCHES)	2	3	3	2-3	2-3	2	2-3	2½	3	3
NEW/EXISTING CONDUIT	E	E	E	E	E	E	E	E	N	N
% FILL	15	13	15	10	10	18	25	34	17	12

* REPLACE EXISTING CONDUCTORS/CABLES WITH NEW.

\+ ADD NEW CONDUCTORS/CABLES TO EXISTING CONDUIT.

\- REMOVE EXISTING CONDUCTORS/CABLES FROM EXISTING CONDUIT.

POLE AND EQUIPMENT SCHEDULE

No.	STANDARD TYPE	SMA (FEET)	LMA (FEET)	VEHICLE SIGNAL MOUNTING MAST ARM	VEHICLE SIGNAL MOUNTING POLE	PEDESTRIAN SIGNAL MOUNTING ++	APS ø	APS ARROW	HPS LUMINAIRE (WATTS)	REMARKS *
(a)	EXISTING 26-3-70	45′	15′	mat mas	SV-1-T	NEW SP-2-T			200	EXISTING evdc TO REMAIN. RS SP-1-T. INSTALL NEW SP-2-T.
(b)	EXISTING 1-B				NEW TV-2-T		NEW 6P	→		REPLACE EXISTING 5-SECTION SIGNAL HEAD AND SIGNAL MOUNTING WITH NEW 12" 3-SECTION SIGNAL HEAD AND SIGNAL MOUNTING AS INDICATED ON THE PLAN. REPLACE EXISTING PEDESTRIAN PUSH BUTTON WITH APS.
(c)	EXISTING 17-3-70	20′	15′	mas-4B	SV-1-T	SP-1-T			200	EXISTING evdd TO REMAIN. ALL EXISTING EQUIPMENT TO REMAIN. RS EXISTING PEDESTRIAN PUSH BUTTON.
(D)	PPB POST						6P	←		
(E)	PPB POST						3P	→		
(f)	EXISTING 1-B				TV-2-T	SP-1-T				RS EXISTING PEDESTRIAN PUSH BUTTON.
(g)	EXISTING 26-3-70	45′	15′	mat mas	NEW SV-1-T	NEW SP-2-T			200	EXISTING evda TO REMAIN. REPLACE EXISTING R3-4 SIGN WITH NEW R73-2(CA) SIGN. REPLACE EXISTING 5-SECTION SIGNAL HEAD AND SIGNAL MOUNTING WITH NEW 12" 3-SECTION SIGNAL HEAD AND SIGNAL MOUNTING AS INDICATED ON THE PLAN. RS SP-1-T. INSTALL NEW SP-2-T.
(H)	1-B (4′)	4′					3P 2P	← →		
(i)	EXISTING 24-4-70	35′	15′	mas	SV-2-TA				200	IS R3-4.
(J)	19-4-100	25′	12′	MAS-4B	SV-1-T	SP-1-T	2P	←	200	INSTALL RELOCATED evdb ON SMA. INSTALL RELOCATED G7-1(Old Redwood Hwy)(CA) SIGN ON SMA. SEE NOTE 18 ON SHEET E-23.
(K)	1-B				TV-2-T	SP-1-T	4P	→		SEE NOTE 115 ON SHEET E-23.
(L)	PPB POST						4P	←		

*OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS. FOR TYPE OF STANDARD, VEHICLE AND PEDESTRIAN SIGNAL MOUNTING, SEE STANDARD PLANS.

++RS EXISTING AUDIBLE PEDESTRIAN SIGNAL DEVICE FROM EXISTING PEDESTRIAN SIGNAL HEADS. INSTALL APS CONTROL UNIT IN ALL PEDESTRIAN SIGNAL HEADS.

SIGNAL AND LIGHTING (CITY) (LOCATION 4)

(CONDUCTOR, POLE AND EQUIPMENT SCHEDULES)

E-24

REVISED BY | DATE REVISED
SIEW KONG | KIN CHAN
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 04-19-12 | DATE PLOTTED => 13-SEP-2012 | TIME PLOTTED => 09:25

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Son	101	7.1/8.1	293	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

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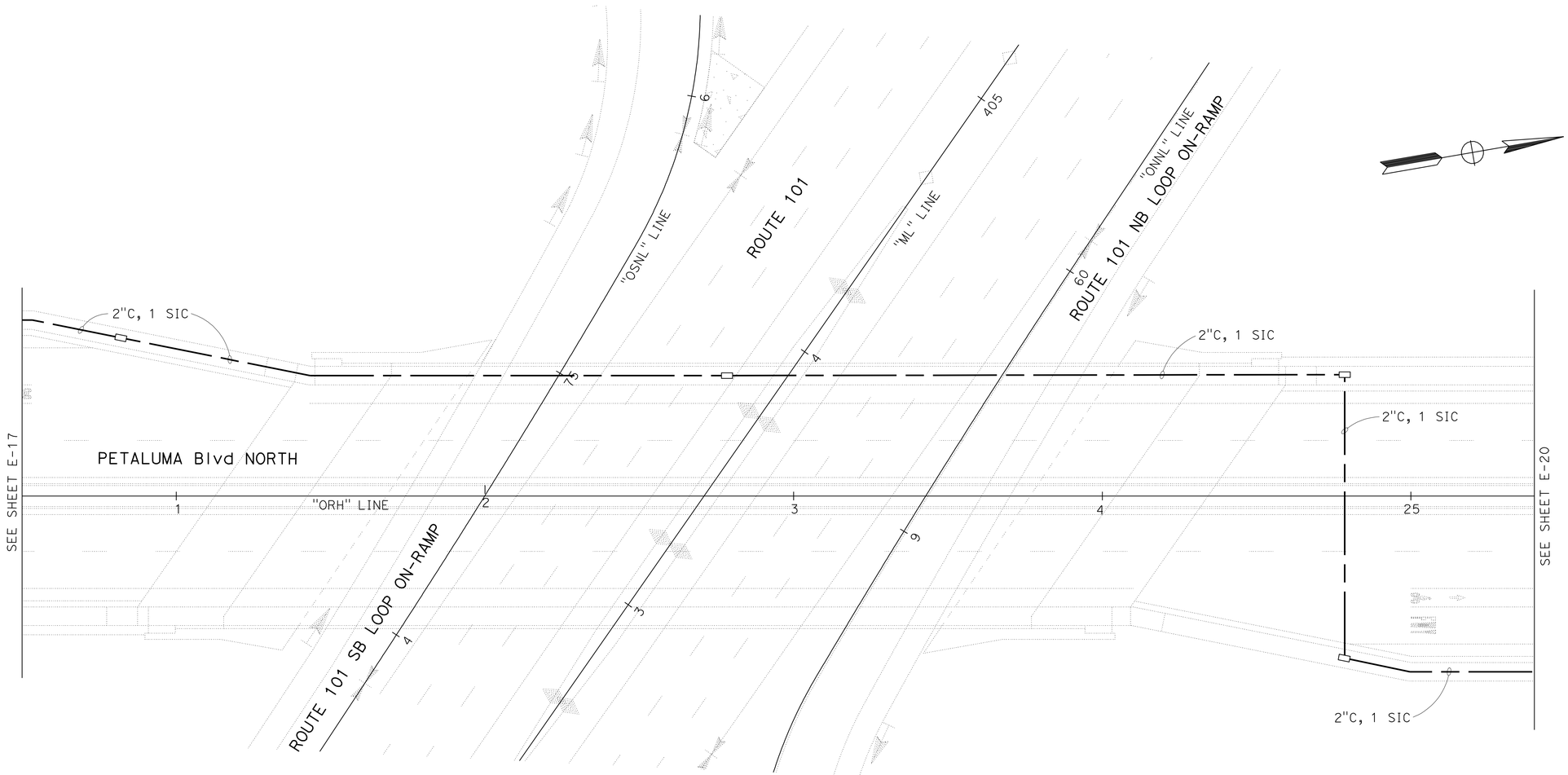

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

INTERCONNECTION CONDUIT AND CABLE

SCALE: 1" = 20'

E-25

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN
CALCULATED-DESIGNED BY: SIEW KONG
CHECKED BY: KIN CHAN
REVISED BY
DATE REVISED

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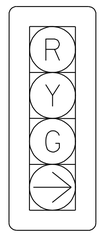
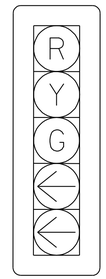


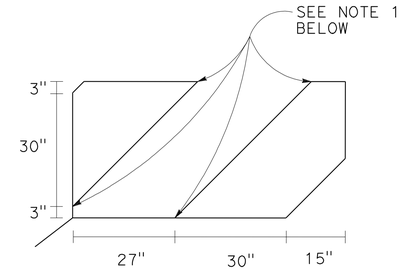
12" RED BALL
12" YELLOW BALL
12" GREEN BALL
12" YELLOW OR GREEN ARROW (TWO MODULES)

DETAIL A
4-SECTION VEHICLE SIGNAL HEAD
NO SCALE



12" RED BALL
12" YELLOW BALL
12" GREEN BALL
12" YELLOW ARROW
12" GREEN ARROW

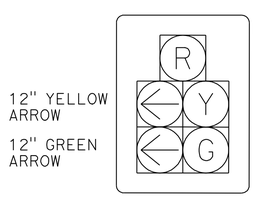
DETAIL C
5-SECTION VEHICLE SIGNAL HEAD
NO SCALE



3' x 6' TYPE D BIKE LOOP DETAIL
NO SCALE

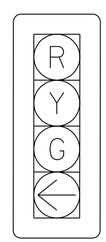
NOTE 1

ROUND CORNERS OF ACUTE ANGLE SAWCUTS TO PREVENT DAMAGE TO CONDUCTORS.



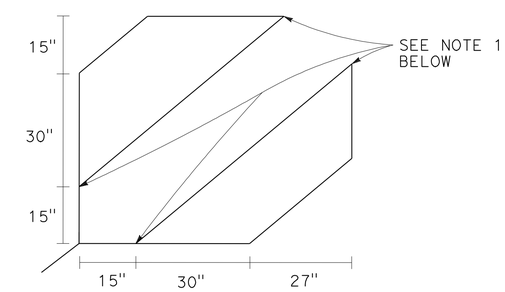
12" YELLOW ARROW
12" GREEN ARROW
12" RED BALL
12" YELLOW BALL
12" GREEN BALL

DETAIL B
5-SECTION VEHICLE SIGNAL HEAD
NO SCALE



12" RED BALL
12" YELLOW BALL
12" GREEN BALL
12" GREEN LEFT ARROW

DETAIL D
4-SECTION VEHICLE SIGNAL HEAD
NO SCALE



5' x 6' TYPE D BIKE LOOP DETAIL
NO SCALE

NOTE 1

ROUND CORNERS OF ACUTE ANGLE SAWCUTS TO PREVENT DAMAGE TO CONDUCTORS.

ELECTRICAL DETAILS
NO SCALE

E-26

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SIEW KONG	KIN CHAN

CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN

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04	Son	101	7.1/8.1	295	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

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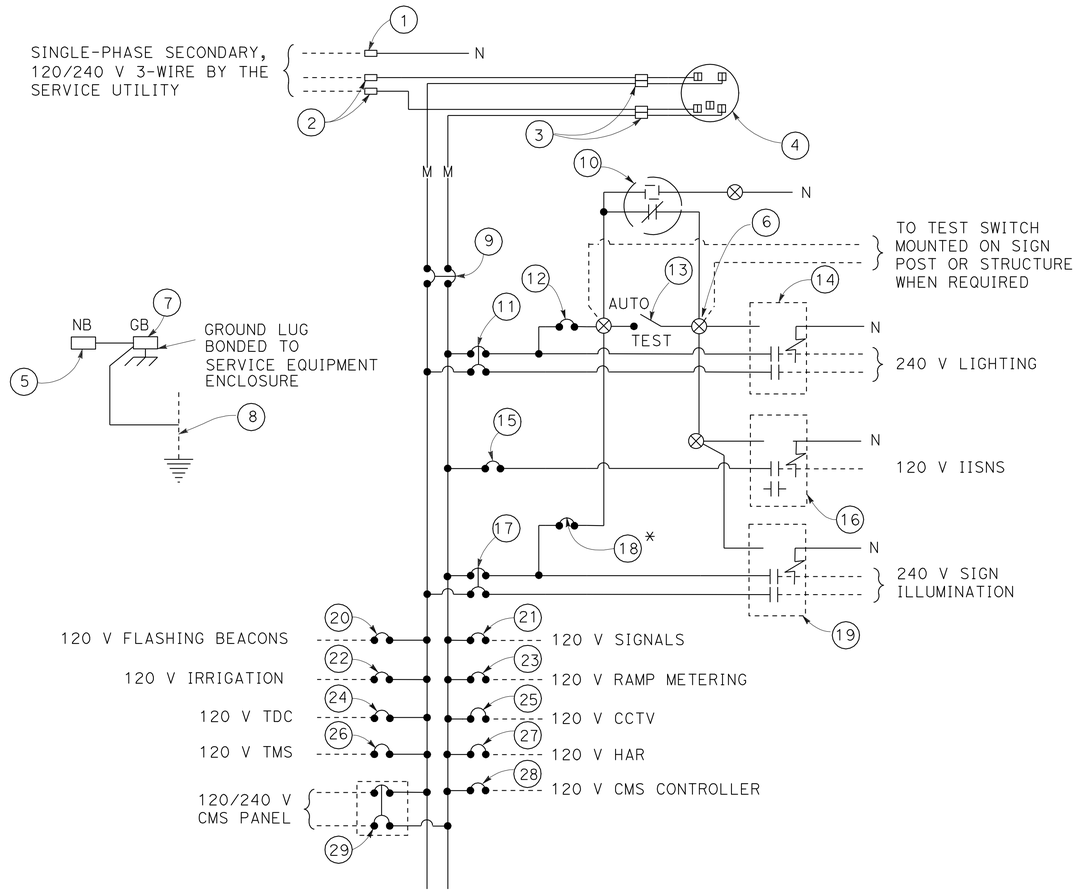
PETALUMA, CA 94952



120/240 V SERVICE WIRING DIAGRAM (TYPICAL)

TYPE III-A SERVICE (120/240 V) EQUIPMENT LEGEND

ITEM No.	COMPONENT	NAME PLATE DESCRIPTION
1	NEUTRAL LUG	
2	LANDING LUG	
3	TEST BYPASS FACILITY	
4	METER SOCKET AND SUPPORT	
5	NEUTRAL BUS	
6	TERMINAL BLOCK	
7	GROUND BUS	
8	GROUNDING ELECTRODE	
9	100 A, 240 V, 2P, CB	MAIN BREAKER
10	PHOTOELECTRIC UNIT (NOTE 7)	
11	30 A, 240 V, 2P, CB	LIGHTING
12	15 A, 120 V, 1P, CB	LIGHTING CONTROL
13	15 A, 1P, TEST SWITCH	TEST SWITCH
14	30 A, 2PNO, CONTACTOR	
15	15 A, 120 V, 1P, CB	IISNS
16	30 A, 2PNO, CONTACTOR	

ITEM No.	COMPONENT	NAME PLATE DESCRIPTION
17	30 A, 240 V, 2P, CB	SIGN ILLUMINATION
18	15 A, 120 V, 1P, CB	SIGN ILLUMINATION CONTROL
19	30 A, 2PNO, CONTACTOR	
20	15 A, 120 V, 1P, CB	FLASHING BEACON
21	50 A, 120 V, 1P, CB	SIGNALS
22	20 A, 120 V, 1P, CB	IRRIGATION
23	30 A, 120 V, 1P, CB	RAMP METERING
24	15 A, 120 V, 1P, CB	TELEPHONE DEMARCATION CABINET
25	30 A, 120 V, 1P, CB	CCTV
26	30 A, 120 V, 1P, CB	TMS
27	30 A, 120 V, 1P, CB	HAR
28	30 A, 120 V, 1P, CB	CMS CONTROLLER
29	30 A, 240 V, 2P, CB	CMS PANEL

* PROVIDE ITEM 12 WHEN BOTH CIRCUITS OF SIGN ILLUMINATION AND LIGHTING ARE USED. ITEM 18 IS NOT REQUIRED.

LEGEND:

(SEE RSP ES-1A AND RSP ES-1C)

NOTES: (FOR SERVICE EQUIPMENT)

1. VOLTAGE RATINGS OF SERVICE EQUIPMENT SHALL CONFORM TO THE SERVICE VOLTAGES INDICATED ON THE PLANS.
2. UNLESS OTHERWISE INDICATED ON THE PLANS, ALL SERVICE EQUIPMENT ITEMS SHALL BE PROVIDED FOR EACH SERVICE EQUIPMENT ENCLOSURE AS SHOWN.
3. ITEM No. 1 AND No. 5 SHALL BE ISOLATED FROM THE CABINET.
4. METER SOCKETS SHALL BE 5 CLIP TYPE.
5. SERVICE UTILITY WILL INSTALL THE TIME-OF-USE METER IF APPLICABLE.
6. UNLESS OTHERWISE NOTED, THE MAXIMUM NUMBER OF SINGLE-POLE CB SPACES IN THE ENCLOSURE IS FOURTEEN.
7. PHOTOELECTRIC CONTROL SHALL BE TYPE II.

ELECTRICAL DETAILS
(SERVICE EQUIPMENT AND TYPICAL WIRING DIAGRAM TYPE III-A SERIES)

NO SCALE

E-27

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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CALCULATED-DESIGNED BY: SIEW KONG
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04	Son	101	7.1/8.1	296	535

REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K. DANIEL YAU No. 44611 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA

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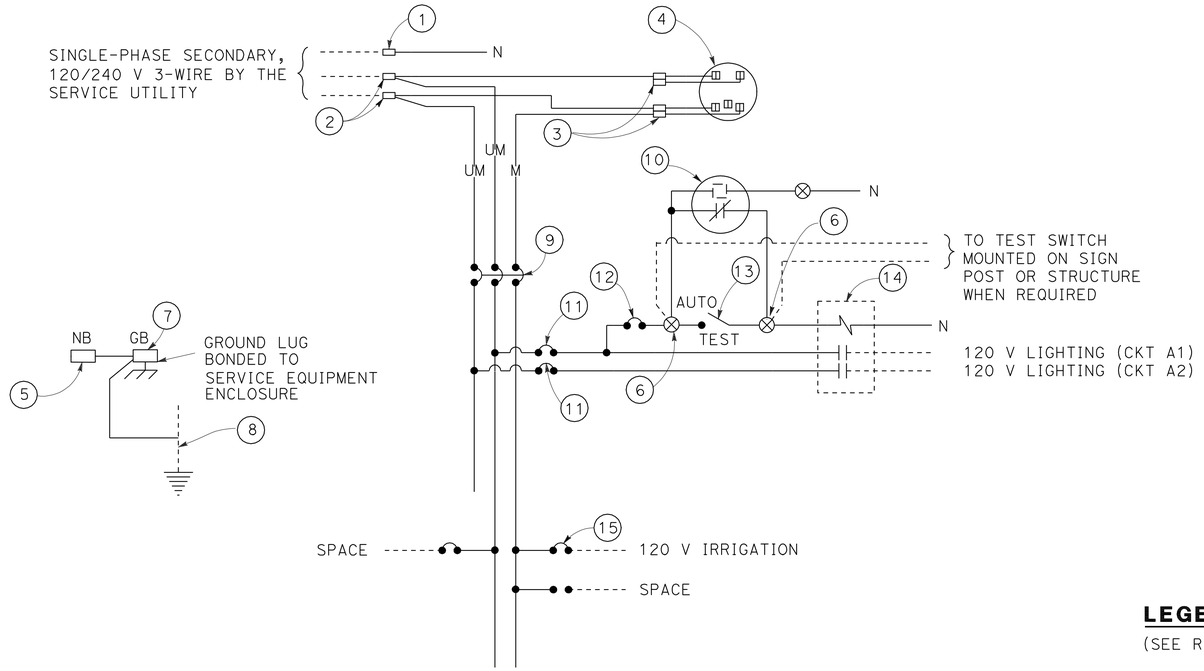

120/240 V METERED/UNMETERED SERVICE WIRING DIAGRAM
(FOR CIRCUIT ONLY WITH LIGHTING)

LEGEND:
(SEE RSP ES-1A AND RSP ES-1C)

TYPE III-A SERVICE (120/240 V) EQUIPMENT LEGEND

ITEM No.	COMPONENT	NAME PLATE DESCRIPTION	ITEM No.	COMPONENT	NAME PLATE DESCRIPTION
1	NEUTRAL LUG		10	PHOTOELECTRIC UNIT (NOTE 7)	
2	LANDING LUG		11	30 A, 120 V, 2P, CB	LIGHTING
3	TEST BYPASS FACILITY		12	15 A, 120 V, 1P, CB	LIGHTING CONTROL
4	METER SOCKET AND SUPPORT		13	15 A, 1P, TEST SWITCH	LIGHTING TEST SWITCH
5	NEUTRAL BUS		14	30 A, 2PNO, CONTACTOR	LIGHTING
6	TERMINAL BLOCK		15	20 A, 120 V, 1P, CB	IRRIGATION
7	GROUND BUS				
8	GROUNDING ELECTRODE				
9	100 A, 240 V, 3P, CB	MAIN BREAKER			

NOTES: (FOR SERVICE EQUIPMENT)

1. VOLTAGE RATINGS OF SERVICE EQUIPMENT SHALL CONFORM TO THE SERVICE VOLTAGES INDICATED ON THE PLANS.
2. UNLESS OTHERWISE INDICATED ON THE PLANS, ALL SERVICE EQUIPMENT ITEMS SHALL BE PROVIDED FOR EACH SERVICE EQUIPMENT ENCLOSURE AS SHOWN.
3. ITEM No. 1 AND 5 SHALL BE ISOLATED FROM THE CABINET.
4. METER SOCKETS SHALL BE 5 CLIP TYPE.
5. SERVICE UTILITY WILL INSTALL THE TIME-OF-USE METER IF APPLICABLE.
6. UNLESS OTHERWISE NOTED, THE MAXIMUM NUMBER OF SINGLE-POLE CB SPACES IN THE ENCLOSURE IS FOURTEEN.
7. PHOTOELECTRIC CONTROL SHALL BE TYPE II.

ELECTRICAL DETAILS
(SERVICE EQUIPMENT AND TYPICAL WIRING DIAGRAM TYPE III-A SERIES) (CITY STREET)
NO SCALE

E-28

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER 4/19/12 DATE

9-10-12
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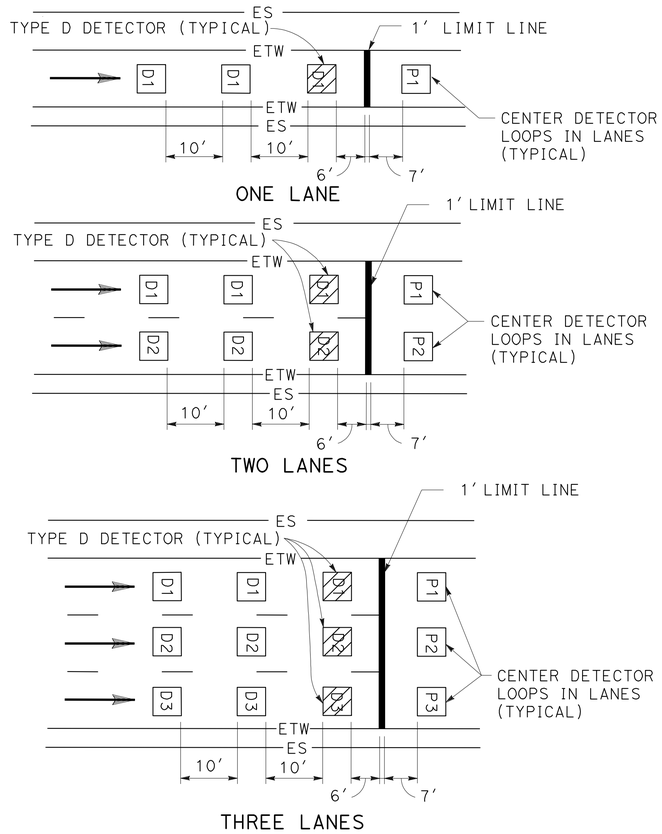
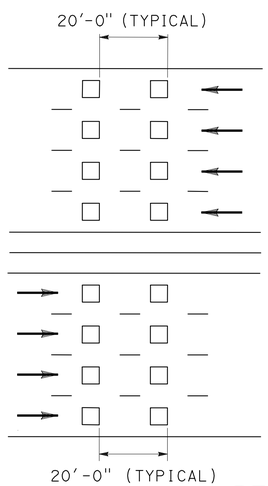
PETALUMA, CA 94952



DETAIL RM
RAMP METERING STATION

RAMP METERING STATION NOTES:

1. SEE RSP ES-5A, RSP ES-5B AND RSP ES-13A FOR ADDITIONAL DETAILS.
2. DLC CONDUCTORS SHALL BE SPLICED TO THE LOOP CONDUCTORS IN THE NEAREST PULLBOX.
3. ALL SPLICES SHALL BE TYPE "S" OR TYPE "ST" AS REQUIRED.



TRAFFIC MONITORING STATION NOTES:

FREEWAY MAINLINE DETECTOR DESIGNATION:

N = NORTHBOUND LANES (NB)
S = SOUTHBOUND LANES (SB)
E = EASTBOUND LANES (EB)
W = WESTBOUND LANES (WB)

NUMBER OF LANES FROM LEFT WITH RESPECT TO DIRECTION OF TRAFFIC:

1 = FIRST LANE FROM LEFT
2 = SECOND LANE FROM LEFT
3 = THIRD LANE FROM LEFT
4 = FOURTH LANE FROM LEFT

NUMBER OF DETECTOR IN THE SAME LANE:

1 = ENTERING DETECTOR
2 = LEAVING DETECTOR

N 3-2

DETAIL "TM"
TRAFFIC MONITORING STATION

RAMP DETECTOR DESIGNATION

D = DEMAND DETECTOR
P = PASSAGE DETECTOR
Q = QUEUE DETECTOR
F = OFF-RAMP DETECTOR

1 = FIRST LANE FROM LEFT
2 = SECOND LANE FROM LEFT

D-2

ELECTRICAL DETAILS
(RAMP METERING AND TRAFFIC MONITORING DETECTOR SPACING AND DESIGNATION)

NO SCALE

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

E-29

REVISED BY	DATE REVISED

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CHECKED BY: KIN CHAN
CONSULTANT FUNCTIONAL SUPERVISOR: RAMSEY HISSEN

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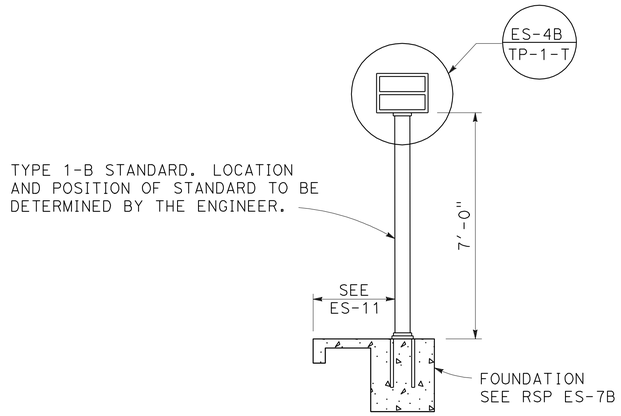
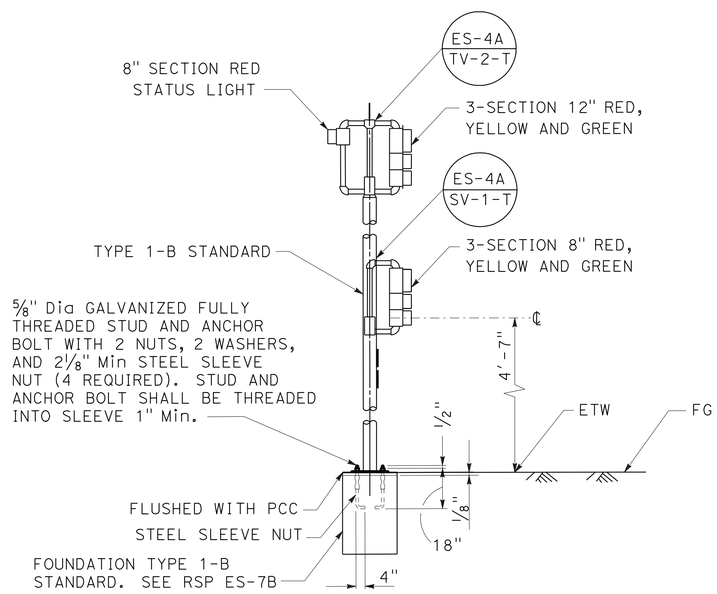


"METER ON" SIGN DETAIL

SIGNAL CONDUCTORS FOR RAMP METERS SHALL BE COLOR CODED AS FOLLOWS:

PHASE	BASE	STRIPE	BAND SYMBOLS
1	RE,YE,BRN	NONE	1
2	RE,YE,BRN	BLACK	2
3	RE,YE,BRN	PURPLE	3
4	RE,YE,BRN	ORANGE	4

DETAIL "CONDUCTOR COLOR CODING"



DETAIL "SIG"
RAMP METER SIGNAL, POLE MOUNTED

ELECTRICAL DETAILS
("METER ON" SIGN
RAMP METERING 1-B STANDARD,
2-LANE MAST ARM, 3-LANE MAST ARM)
CONDUCTOR COLOR CODING

NO SCALE

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

E-30

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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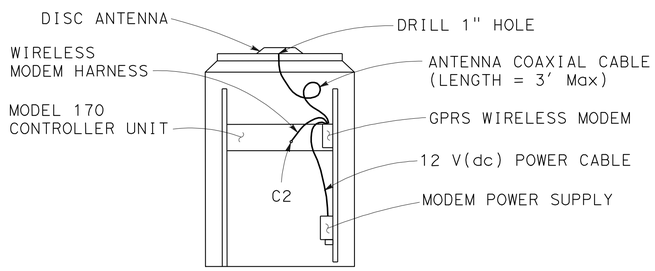

REAR VIEW OF THE MODEL 334L CONTROLLER CABINET

ONE GPRS WIRELESS MODEM AND ANTENNA INSTALLATION DETAIL

CONTRACTOR'S WORK IN THE CONTROLLER CABINET

1. PROVIDE THE GPRS MODEM AND WIRELESS MODEM HARNESS TO THE ENGINEER 30 WORKING DAYS BEFORE INSTALLATION. THE ENGINEER WILL RETURN THE PROGRAMMED MODEM, WITH PDP CONTEXT AND APN, AND HARNESS WITHIN 15 WORKING DAYS.
2. DRILL 1" HOLE THROUGH THE TOP OF THE CABINET. ATTACH THE ANTENNA ON THE CABINET AS DIRECTED BY THE MANUFACTURER.
3. MOUNT THE MODEM UNIT ON THE CABINET REAR MOUNTING RAIL WITH MOUNTING BRACKET PROVIDED BY THE MANUFACTURER.
4. MOUNT THE MODEM 12 V(dc) POWER SUPPLY DIRECTLY TO CABINET.
5. CONNECT POWER CABLE TO 12 V(dc) POWER ADAPTER.
6. CONNECT THE ANTENNA COAXIAL CABLE TO THE MODEM.
7. CONNECT MODEM HARNESS BETWEEN THE MODEM AND THE MODEL 170 CONTROLLER UNIT AS SHOWN.
8. RECORD THE SERIAL NUMBER OF THE MODEM ON THE CHECK LIST SHEET.

COMMUNICATION SERIAL CABLE TYPE D

1. PIN OUT DIAGRAM

AMP 201360-2-ND DB9-P

L — 2
K — 3
N — 5
D, H, J, M — 1,4,6,7,8,9 N/C

2. CONSTRUCT AND INSTALL COMMUNICATION CABLE. SEE SPECIAL PROVISIONS FOR CABLE TYPE AND OTHER INFORMATION.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1

ELECTRICAL DETAILS
GENERAL PACKET RADIO SYSTEM (WIRELESS MODEM INSTALLATION DETAILS)
NO SCALE

E-31

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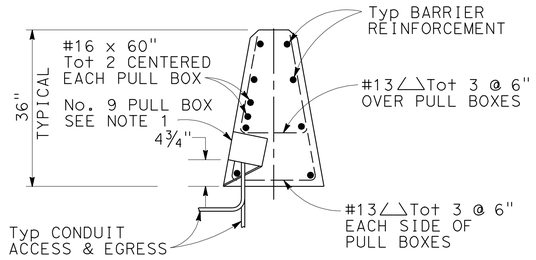
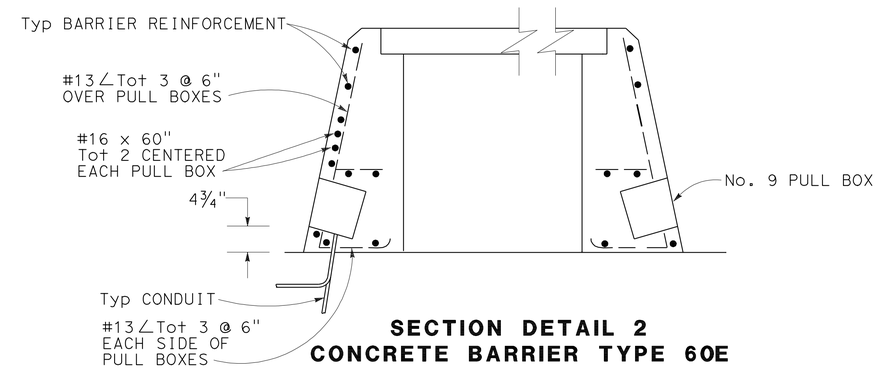
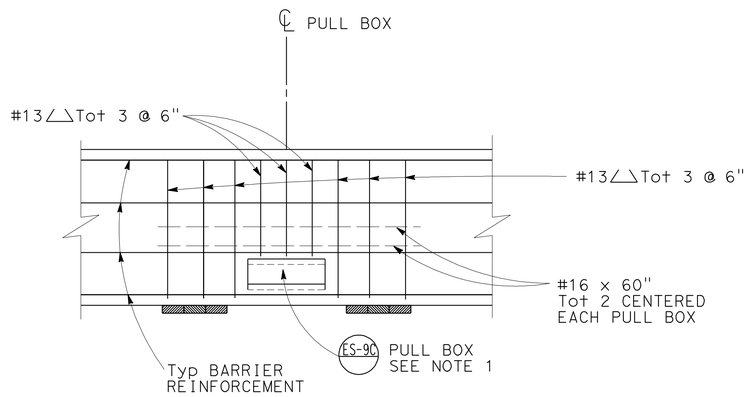


SECTION DETAIL 1
CONCRETE BARRIER TYPE 60

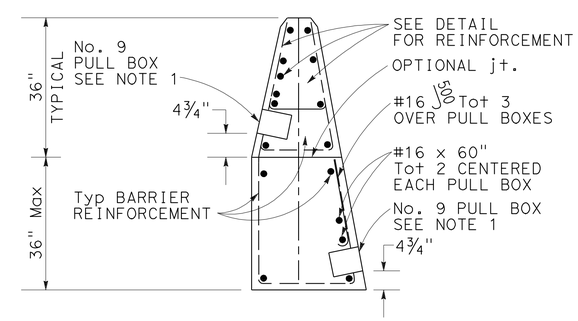


SECTION DETAIL 2
CONCRETE BARRIER TYPE 60E

PULL BOXES SHOWN FOR DOUBLE PULL BOX INSTALLATION.
ELIMINATE EITHER ONE FOR SINGLE PULL BOX INSTALLATION.



ELEVATION



SECTION DETAIL 3
CONCRETE BARRIER TYPE 60C

PULL BOXES SHOWN FOR BOTH UPPER AND LOWER ROADWAYS.
ELIMINATE EITHER ONE WHEN NOT REQUIRED.

NOTE 1

A. SEE RSP ES-9C FOR PULL BOX DETAILS.

B. SEE ROADWAY PLANS FOR CONDUIT LAYOUT AND ELECTRICAL DETAILS.

C. TYPICAL CONDUIT ACCESS AND EGRESS SHOWN IN DETAIL 1, SANCTION OF LONGITUDINAL CONDUIT NOT CONSIDERED WITH THIS DETAIL.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET E-1.

ELECTRICAL DETAILS
(TYPE 9 PULL BOX IN EXISTING TYPE 60 MEDIAN BARRIER)
NO SCALE

E-32

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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